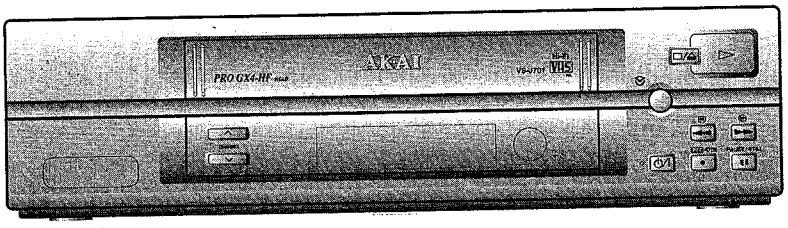
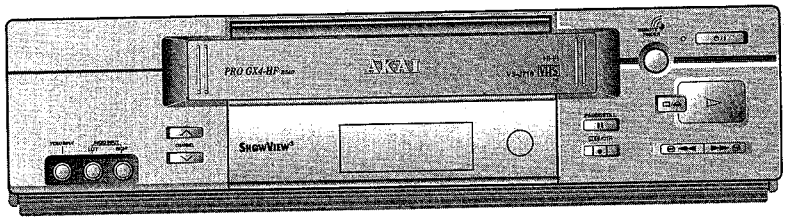
AKAI SERVICE MANUAL

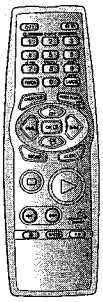
V24601



MODEL : VS-J701EO-D

HIGH QUALITY PAL





SHOWVIEW® MODEL : VS-J718EO-D

HIGH QUALITY PAL

VIDEO CASSETTE RECORDER

MODELS VS-J200/218/418EO

MODELS VS-J701/718EO-D,EO-DN

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SECTION1 SUMMARY

KEY TO ABBREVIATIONS

A	AC	:Alternating Current
	ACC	:Automatic Color Control
	ACSS	:Automatic Channel Setting System
	ADJ	:Adjust
	A/E	:Audio Erase
	AFC	:Automatic Frequency Control
	AFT	:Automatic Fine Tuning
	AGC	:Automatic Gain Control
	A.H.SW	:Audio Head Switch
	ALC	:Automatic Level Control
	AM	:Amplitude Modulation
	AMP	:Amplifier
	ANT	:Antenna
	APC	:Automatic Phase Control
	ASS'Y	:Assembly
	AUX	:Auxiliary
B	B	:Base
	BGP	:Burst Gate Pulse
	BPF	:Bandpass Filter
	BS	:Brodcasting Satellite
	BW or B/W	:Black and White
C	C	:Capacitor, Chroma, Collector
	CAN	:Cancel
	CAP	:Capstan
	CAP.BRK	:Capstan Brake
	CAP.RVS	:Capstan Reverse
	CATV	:Cable Television
	CBA	:Circuit Board Assembly
	CCD	:Charge Coupled Device
	C.CTL	:Chro Control, Capstan Control
	CFG	:Capstan Frequency Generator
	CHROMA	:Chrominance
	CNR	:Chroma Noise Redution
	COMB	:Combination Comb Filter
	COMP	:Comparator Composite Compensation
	CONV	:Converter
	C.ROT SW	:Color Rotary Switch
	CS	:Chip Selcet
	C.SYNC	:Composite Synchronization
	CTL DIV	:Control Divide
	CUR	:Current
	CYL	:Cylinder
D	D	:Drum, Digital, Diode, Drain
	D.ADJ	:Drum Adjust
	DC	:Direct Current
	D.CTL	:Drum Control
	DEMOD	:Demodulator
	DET	:Detector
	DEV	:Deviation
	DHP	:Double High Pass
	DIGITRON	:Digital Display Tube
	DL	:Delay line
	DOC	:Drop Out Compensator
	DUB	:Dubbing
	D.V SYNC	:Dummy Vertical Synchronization
E	E	:Emitter
	EE	:Electric to Eletric
	EMPH	:Emphasis
	ENA	:Enable
	ENV	:Envelope
	EP	:Extended Play
	EQ	:Equalizer
	EXP	:Expander
F	F	:Fuse
	FB	:Feed Back
	FBC	:Feed Back Clamp
	FE	:Full Erase
	FG	:Frequency Generator
	FL	:Filter
	FM	:Frequency Modulation
	F/R	:Front/Rear
	FS	:Frequency Synthesizer
	FSC	:Subcarrier Frequency
	F/V	:Frequency Voltage
G	GEN	:Generator
H	H	:High, Horizontal
I	IC	:Integrated Circuit
	IF	:Intermediate Frequency
	INS	:Insert
L	L	:Low, Left, Coil
	LD	:LED
	LD VTG CTL	:Loading Voltage Control
	LECHA	:Letter Character
	L.M	:Level Meter
	LP	:Long Play
	LPF	:Low Pass Filter
M	MAX	:Maximum
	MD	:Modulator
	MECHA.CTL	:Mechanism Control
	MIC	:Microphone
	MIN	:Minimum
	MIX	:Mixer, Mixing
	M.M.	:Monostable, Multivibrator
	MMV	:Mono Multi Vibrator
	MOD	:Modulation, Modulator
	MODEM	:Modulator-Demodulator
	MPX	:Multiplex
N	NR	:Noise Reduction
O	OSC	:Oscillator
	OSD	:On Screen Display
P	PB	:Playback
	PCB	:Printed Circuit Board
	P.CTL	:Power Control
	PRE-AMP	:Preamplifier
	P.F	:Power Failure
	PG	:Pulse Generator
	PLL	:Phase Locked Loop
	PREM.DET	:Premire Detect
	P.P	:Peak-to-Peak
	PS	:Phase Shift
	PWM	:Pulse Width Modulation
	PWR CTL	:Power Control
Q	Q	:Transistor
	QH	:Quasi Horizontal
	QSR	:Quick Setting Record
	QTR	:Quick Timer Record
	QV	:Quasi Vertical
R	R	:Resistor, Right
	RE(or RC)	:Remocon, Receiver
	REC	:Recording
	REC S 'H'	:Record Start 'Hight'
	REF	:Reference
	REG	:Regulated, Regulator
	REMOCON	:Remote Control(unit)
	RF	:Radio Frequency
	R/P	:Record/Playback
	RTC	:Reel Time Counter
S	S	:Serial
	S.ACCEL	:Slow Accel
	SAOP	:Second Audio Program
	SC	:Scart, Simulcast
	S.DET	:Secam Detect
	SH	:Shift
	SHARP	:Sharpness
	SIF	:Sound Intermediate Frequency
	SLD	:Side Locking
	S/N	:Signal to Noise Ratio
	SP	:Standard Play
	ST	:Stereo
	SUB	:Subtract, Subcarrier
	SW or S/W	:Switch
	SYNC	:Synchronization
	SYSCON	:System Control
T	T	:Coil
	TP	:Test Point
	TR	:Transistor
	TRK	:Tracking
	TRANS	:Transformer
	TU	:Tuner, Take-up
U	UHF	:Ultra High Frequency
	UNREG	:Unregulated
V	V	:Volt, Vertical
	VA	:Always Voltage
	VCO	:Voltage Controlled Oscillator
	VGC	:Voltage Gain Control
	VHF	:Very High Frequency
	V.H.SW	:Video Head Switch
	VISS	:VHS Index Search
	VPS	:Video Program System
	VR	:Variable Resistor or Volume
	V-SYNC	:Vertical Synchronization
	VTG	:Voltage
	VV	:Voltage to Voltage
	VXO	:Voltage X-tal Oscillator
W	W	:Watt
	WHT	:White
	W/O	:With out
X	X-TAL	:Crystal
Y	Y/C	:Luminance/Chrominance
	YNR	:Luminance Noise Reduction
Z	ZD	:Zener Diode

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, the products are strictly inspected to confrom with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

• Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded (▩) parts are critical for safety.
   Replace only with specified part numbers.
   Note : Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Use Specified internal wiring. Note especially:
   1) Double insulated wires
   2) High voltage leads

4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistor

5. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

6. Check that replaced wires do not contact sharp edged or pointed parts.

7. 1) When a power cord has been replaced, check that A mark is made on the cord, under strain, near the aperture, and the flexible cord is subjected 100 times to a pull of 40N for a duration of 1 second each.
   2) During the test, the cord shall not be displaced by more than 2mm

8. Also check areas surrounding repaired locations.

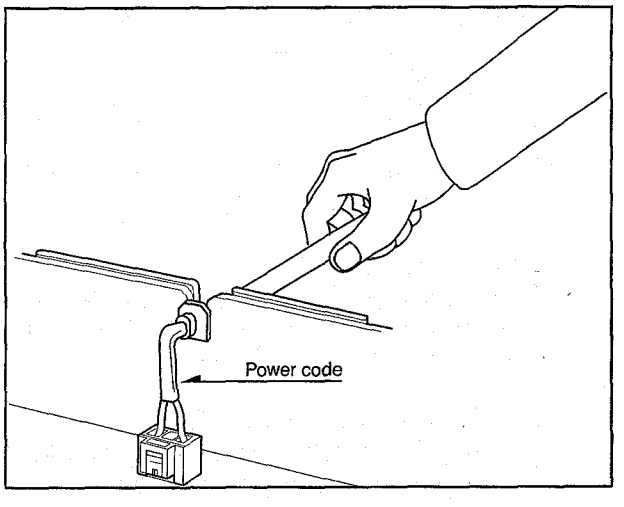


Fig. 1

SAFETY CHECK AFTER SERVICING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

- **Insulation resistance test**

  confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, incrophone jacks, earphone jacks, etc.) See table below.

- **Dielectric strength test**

  Confirm specified dielectric strength or greater between power cord prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, incrophone jacks, earphone jacks, etc.) See table below.

- **Clearance distance**

  When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

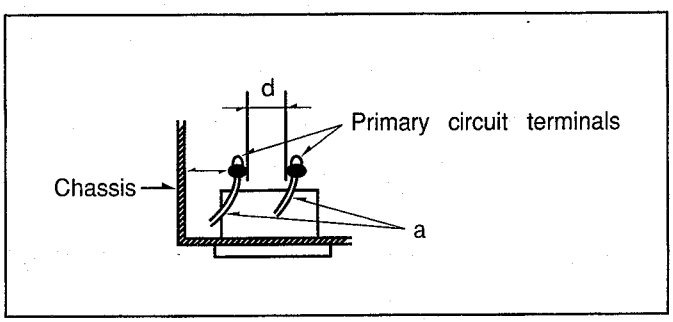


Fig. 2

Table 1 : Ratings for selected areas

AC Line Voltage	Region	Insulation Resistance	Dielectric Strength	Clearance Distance(d),(d)
*100 to 130 V 200 to 240 V	Europe Australia	≧ 10 MΩ/500 V DC	4kV 1 minute	≧ 6mm(d) ≧ 8mm(d) (a Power cord)

* Class II model only.

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

- **Leakage Current test**

  Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.)

  Measuring Method: (Power ON)
  Insert load Z between B(earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure and following table.

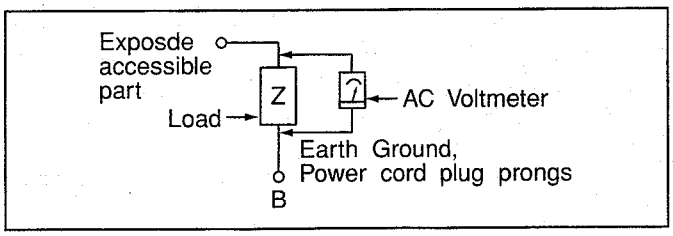


Fig. 3

Table 2:Leakage current ratings for selected areas.

AC Line Voltage	Region	Load Z	Leakage Current(i)	Earth Ground (B) to :
100 to 130 V	Europe	2kΩ	i ≦ 0.7m A peak i ≦ 2m A DC	Antenna earth terminals
200 to 240 V	Australia	50kΩ	i ≦ 0.7m A peak i ≦ 2m A DC	Other terminals

Note. This table is for IEC member only. Be sure to confirm the precise values for your particular country and locality.

SPECIFICATIONS

Power:		220-240V~, 50Hz.
Power consumption		Approx. 20 watts(VS-J701/718EO-D,EO-DN), 18 watts(VS-J200/218/418EO) (Energy saving mode: 3 watts)
Video Head system		Double azimuth 4 heads, helical scanning system (VS-J701/718EO-D,EO-DN/418EO) Rotary 2 heads, helical scanning system(VS-J200/218EO)
Tape speed		23.39 mm/sec (SP mode)/ 11.69 mm/sec (LP mode)
Tape format		Tape width 1/2" (12.7 mm high density VHS tape)
Maximum recording time		4 hours in SP mode/8 hours in LP mode (with E-240 tape)
Rewind time		Approx. 180 sec. (with E-180 tape)
Dimensions	(W X H X D)	14.2" X 3.7" X 10.6" (360 X 94 X 270 mm)
Weight		7.5.0lbs. (3.4 kg)
Operating temperature		41°F-95°F (5°C-35°C)
Operating humidity		Less than 80 %
Timer		24 hours display type
Video		
Input level		VIDEO IN (SCART, RCA type) 1.0 Vp-p, 75 ohm, unbalanced
Output level		VIDEO OUT (SCART type)1.0 Vp-p, 75 ohm, unbalanced
Signal to noise ratio		More than 43 dBm
RF modulator		UHF channels 22-68 (Adjustable) (Preset CH 36)
Audio		
Input level		AUDIO IN (SCART, RCA type) SCART type: -5 dBm, more than 10 kΩ RCA type: -5 dBm, more than 47 kΩ
Output level		AUDIO OUT (SCART, RCA type) SCART type: -5 dBm, less than 1 kΩ RCA type: -5 dBm, less than 1 kΩ
Audio track		Mono track & Hi-Fi track
Audio frequency response		Normal:100 Hz-10 kHz -6/+3 dB) Hi-Fi: 20 Hz-20 kHz (-3/+3 dB)
Audio signal to noise ratio		Mono audio: More than 43 dB Hi-Fi audio: More than 75 dB (JIS A filter)
Audio dynamic range		Hi-Fi audio: More than 80 dB (JIS A filter)

• *Design and specifications are subject to change without notice!*

OPTION PARTS : VS-J701/718EO-D, EO-DN ONLY

SECTION 2 CABINET & MAIN CHASSIS
SERVICE METHOD

Electrical Part

(1) Disassembly Flow(2-2~2-3)

Top Case

Bottom Cover

Front Panel

Housing & Deck Assembly

Main C.B.A

Key C.B.A

(2) Re-assembly Flow for service like Fig. 2-1

Key C.B.A

Main C.B.A

Housing & Deck Assembly

(3) To check and replace Electrical parts

① Disassemble the unit according to No.1) Disassembly Flow.

② Re-assemble the unit according to No.2) Re-assembly Flow.

③ Place the unit like Fig. 2-1

④ Check and replace Electrical parts.

NOTE :

① Insert Video Cassette Tape inversely like Fig. 2-1 to check and replace defective parts.

② In disassembling and reassembling, be careful not to damaged CST switch.

(Positioned Upside Down)

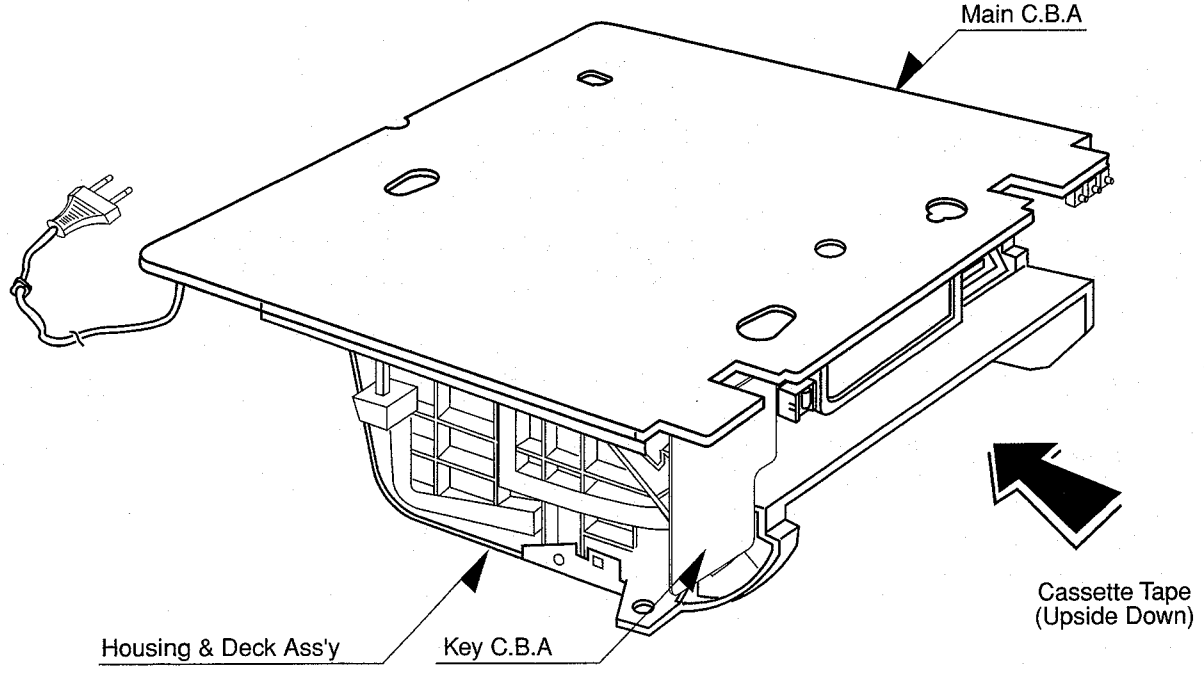


Fig.2-1

CABINET DISASSEMBLY

1.Top Case (Fig.2-2)

(1) Remove 2 screws(A)
(2) Lift the Top case while holding the back of it and remove it in the direction of the arrow.

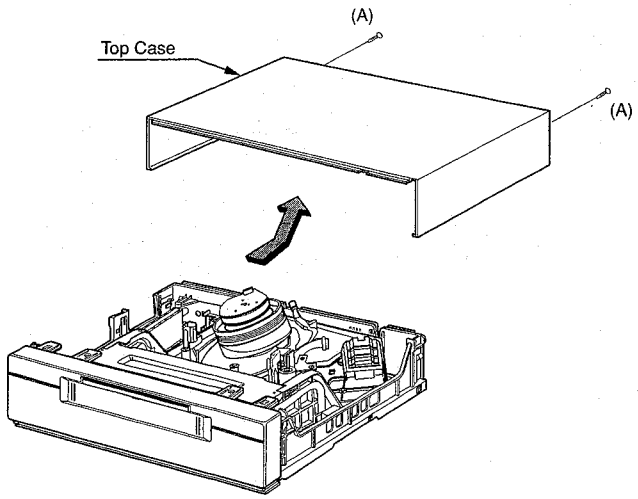


Fig.2-2

2. Bottom cover(Fig. 2-3)

(1) Remove 2 screws(B)
(2) Remove the Bottom Cover in the direction of the arrow.

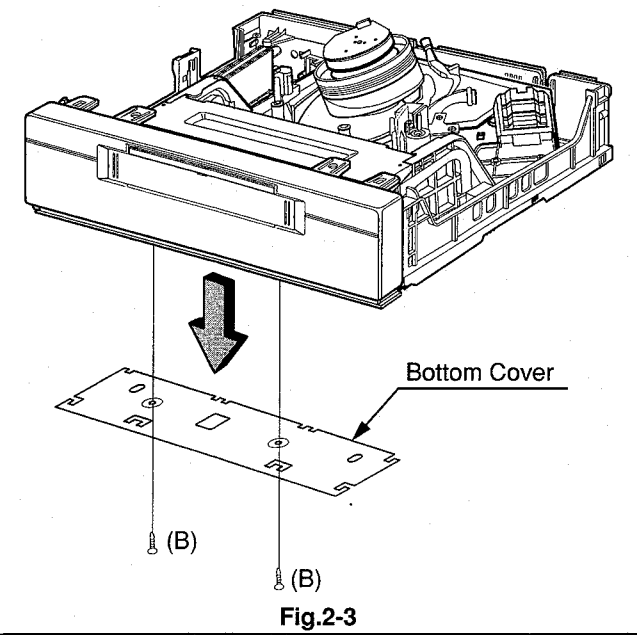


Fig.2-3

3.Front Panel (Fig. 2-4)

(1) Release 7 Locking tabs of the Top, Bottom and Side of the Front Panel.
(2) Remove the Front Panel in the direction of the arrows.

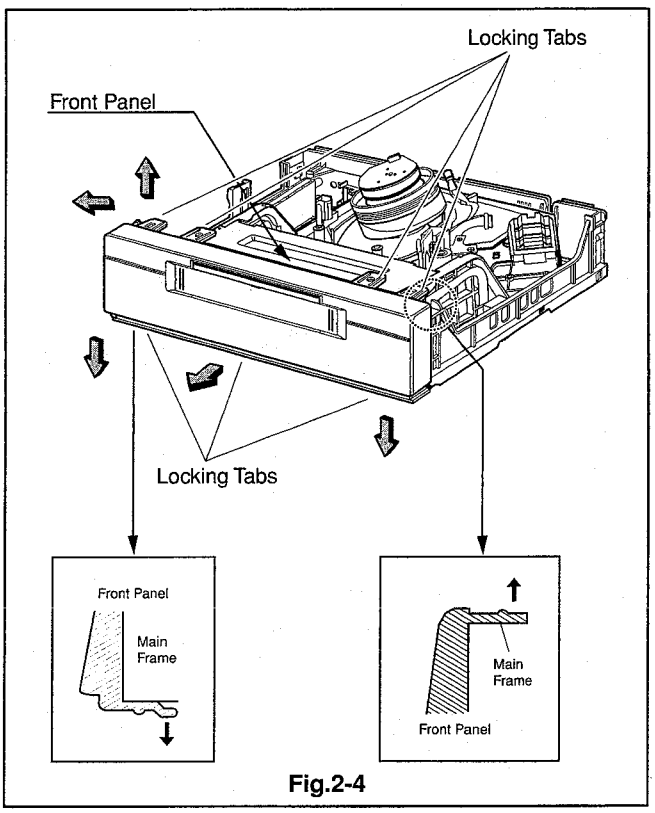
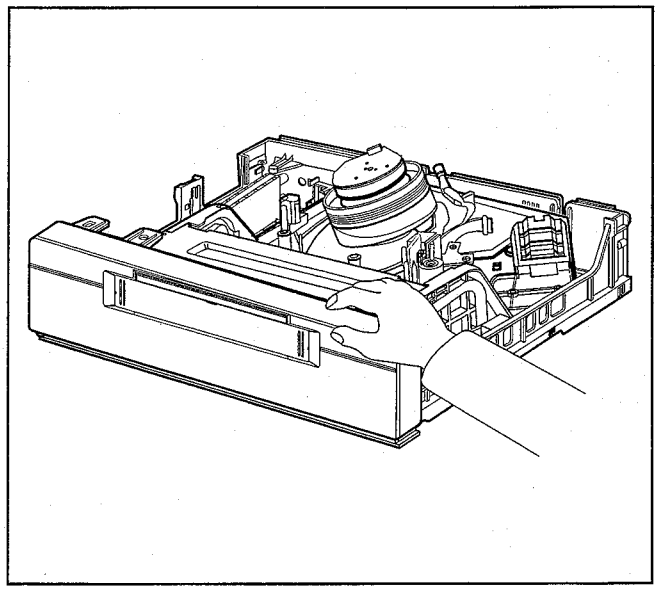


Fig.2-4

* Caution

When reassembling the Front Panel, assemble it in direction of inserting the Cassette inside.



PRINTED CIRCUIT BOARD REMOVAL

1. Main Circuit Board (Fig. 2-5)

(1) Remove 6 screws (C) and disassemble the Deck Ass'y.
(2) Remove 2 screws (D) and unlock 5 Hooks that are left and right of Main Frame.
(3) Disassemble the Main C.B.A from the Main Frame.

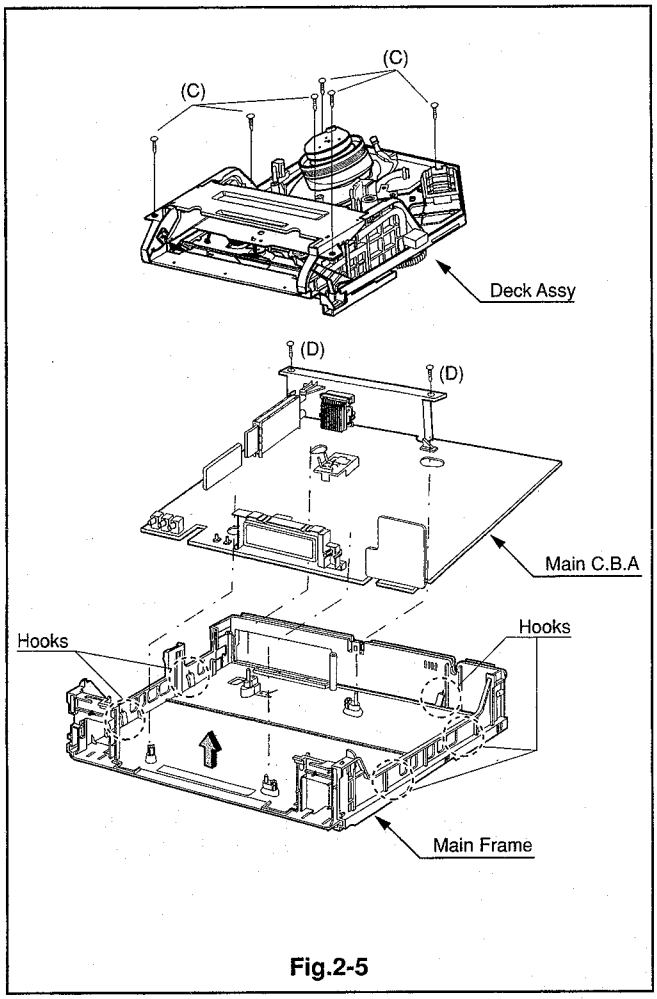


Fig.2-5

2. Key Circuit Board (Fig. 2-6)

(1) Pull the Tabs in the direction of small arrows to disengage from main frame.
(2) Then pull the key circuit board.

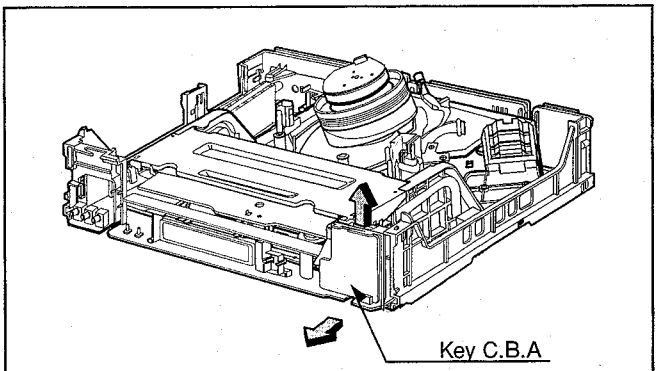
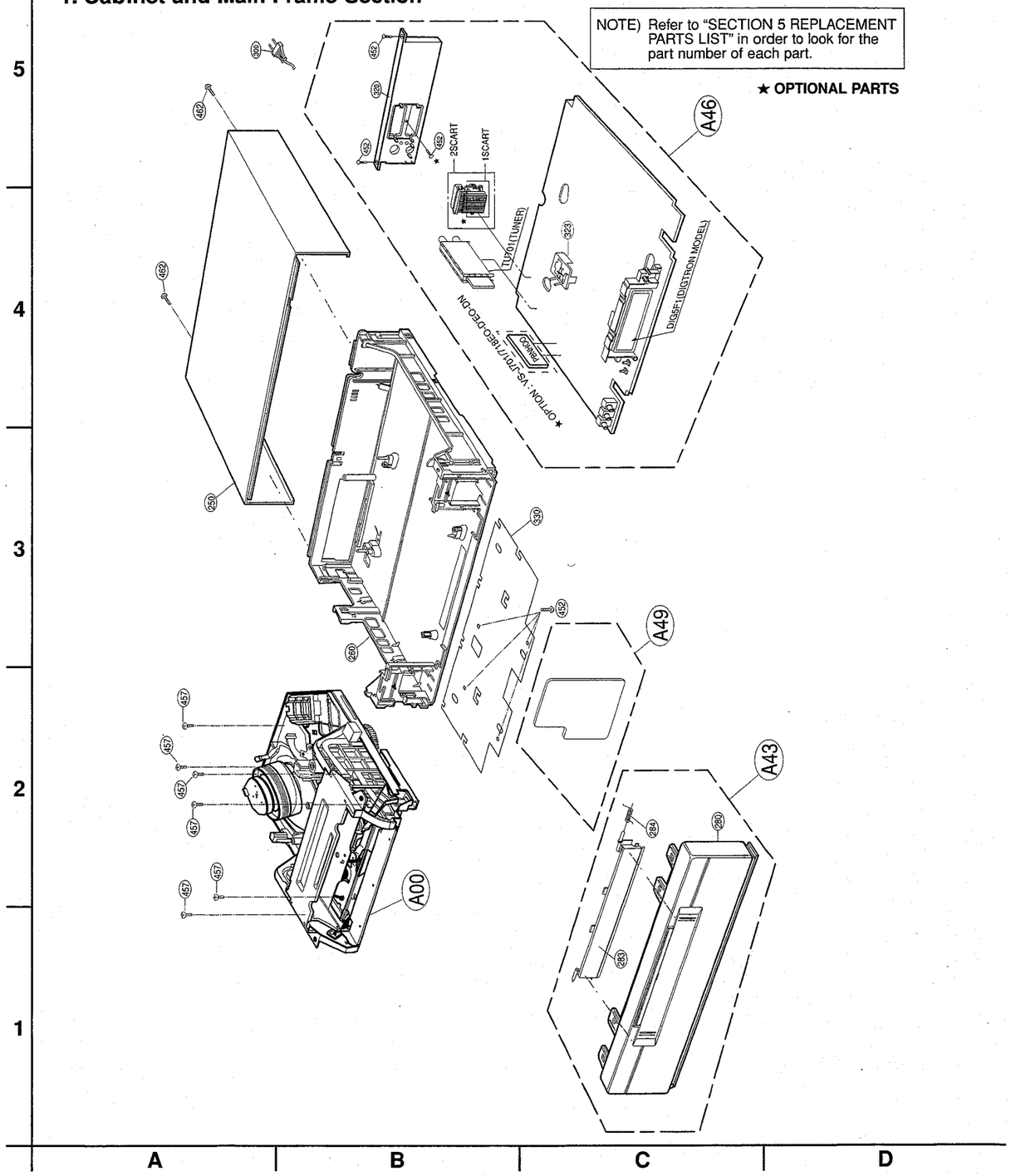


Fig.2-6

EXPLODED VIEWS

1. Cabinet and Main Frame Section



• Cabinet & Main Frame Section

RUN DATE : 99.06.19
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
				ASSEMBLY PARTS SECTION		
		A43	3721R-F107G	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J418EO)	
		A43	3721R-F107M	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J218EO) :M/G	
		A43	3721R-F107W	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J218EO) :D/BK	
		A43	3721R-F108C	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J200EO)	
		A46	3501R-1237C	BOARD ASSY	MAIN (VS-J418EO)	
		A46	3501R-1237G	BOARD ASSY	MAIN (VS-J200EO)	
		A46	3501R-1237H	BOARD ASSY	MAIN (VS-J218EO)	
		A49	6871R-1240A	PWB(PCB) ASSY	TIMER (VS-J200EO)	
		A49	6871R-1241A	PWB(PCB) ASSY	TIMER (VS-J418EO/J218EO)	
				PARTS SECTION		
		250	3110R-0128K	CASE	TOP(VSJ418EO/J218EO/J200EO)M/G	
		260	3210R-0023B	FRAME	MAIN (VII-PJT, 60HR)	NSP
		275	4930R-0133A	HOLDER	DIGITRON(UP-MONO)	
		280	3720R-F081B	PANEL	FRONT(VS-J200EO)	NSP
		280	3720R-F081D	PANEL	FRONT(VS-J418EO/J218EO) :M/G	NSP
		280	3720R-F081G	PANEL	FRONT(VS-J218EO) :D/BK	NSP
		283	3580R-0038G	DOOR	CST(VS-J418EO)	
		283	3580R-0038M	DOOR	CST(VS-J218EO)	
		283	3580R-0043C	DOOR	CST(VS-J200EO)(E V Y2)	
		284	442-681A	SPRING	DOOR	
		300	6410RCHV02A	POWER CORD	H03VVH2-F2 X 0.75MM FILTER VOL	
		320	3721R-D023F	PANEL ASSY,DISTRIBUTOR[NORMAL	AF-PAL MONO -2SCART-PREMERE/CA	
		323	3111R-0089B	CASE ASSY	PRE-AMP (PBSB-SH)	
		330	3550R-0210A	COVER	BOTTOM(LARGE)	
				SCREW		
		452	353-051A	SCREW	SPECIAL	
		457	353-051E	SCREW	SPECIAL (3X12)	
		462	353-136A	SCREW	SPECIAL(FBK) (353S353A)	

RUN DATE : 99.06.18
NSP: Not Service Part

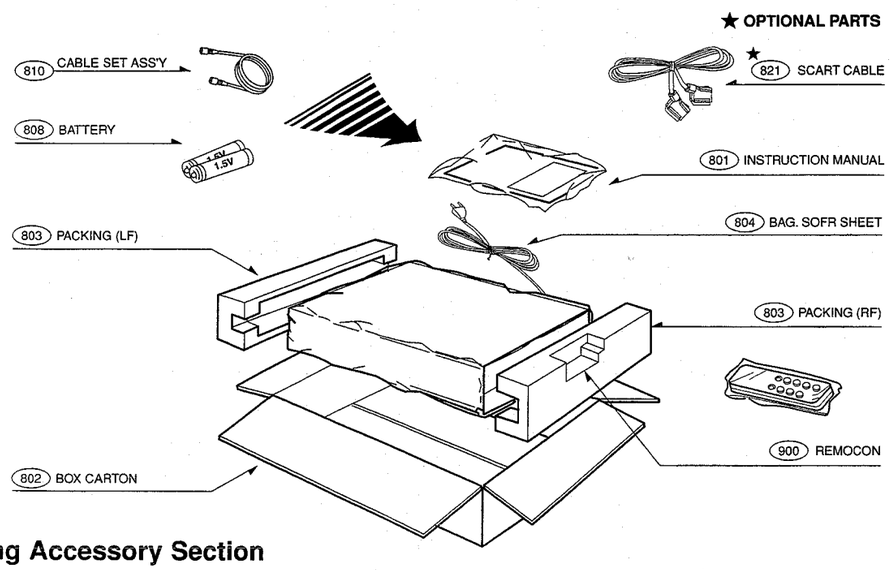
S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
				ASSEMBLY PARTS SECTION		
		A43	3721R-F108D	PANEL ASSY,FRONT[NORMAL PARTS]	VS-J701EO-D	
		A43	3721R-F108E	PANEL ASSY,FRONT[NORMAL PARTS]	VS-J701EO-DN	
		A49	6871R-1240A	PWB(PCB) ASSY	TIMER(AKAI,0PNL)	
				PARTS SECTION		
		250	3110R-0128K	CASE	TOP(N911G:M/G),SIDE	
		260	3210R-0023B	FRAME	MAIN (VII-PJT, 60HR)	NSP
		275	4930R-0133A	HOLDER	DIGITRON(UP-MONO)	
		280	3720R-F080B	PANEL	FRONT	NSP
		283	3580R-0043D	DOOR	CST(VS-J701EO-D)	
		283	3580R-0043E	DOOR	CST(VS-J701EO-DN)	
		284	442-681A	SPRING	DOOR	
		300	6410RCHV02A	POWER CORD	H03VVH2-F2 X 0.75MM FILTER VOL	
		320	3721R-D023E	PANEL ASSY,DISTRIBUTOR[NORMAL	AF-PAL HI-FI-2SCART -PREMERE	
		323	3111R-0089B	CASE ASSY	PRE-AMP (PBSB-SH)	
		330	3550R-0210A	COVER	BOTTOM(LARGE)	
				SCREW		
		452	353-051A	SCREW	SPECIAL	
		457	353-051E	SCREW	SPECIAL (3X12)	
		462	353-136A	SCREW	SPECIAL(FBK) (353S353A)	

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
				ASSEMBLY PARTS SECTION		
		A43	3721R-F107H	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J718EO-D) M/G	
		A43	3721R-F107P	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J718EO-DN)	
		A43	3721R-F107X	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J718EO-D) D/BK	
		A49	6871R-1241A	PWB(PCB) ASSY	TIMER(AKAI,1PNL)	
				PARTS SECTION		
		250	3110R-0128K	CASE	TOP(VS-J718EO-DN) M/G	
		250	3110R-0128R	CASE	TOP(VS-J718EO-D) D/BK	
		260	3210R-0023B	FRAME	MAIN (VII-PJT, 60HR)	NSP
		275	4930R-0133A	HOLDER	DIGITRON(UP-MONO)	
		280	3720R-F081A	PANEL	FRONT (VS-J718EO-DN)	NSP
		280	3720R-F081H	PANEL	FRONT (VS-J718EO-D) D/BK	NSP
		283	3580R-0038H	DOOR	CST(VS-J718EO-D)	
		283	3580R-0038P	DOOR	CST(VS-J718EO-DN)	
		284	442-681A	SPRING	DOOR	
		300	6410RCHV02A	POWER CORD	H03VVH2-F2 X 0.75MM FILTER VOL	
		320	3721R-D023E	PANEL ASSY,DISTRIBUTOR[NORMAL	AF-PAL HI-FI-2SCART-PREMERE	
		323	3111R-0089B	CASE ASSY	PRE-AMP (PBSB-SH)	
		330	3550R-0210A	COVER	BOTTOM(LARGE)	
				SCREW		
		452	353-051A	SCREW	SPECIAL	
		457	353-051E	SCREW	SPECIAL (3X12)	
		462	353-136A	SCREW	SPECIAL(FBK) (353S353A)	

2.Packing Accessory Section

NOTE) Refer to "SECTION REPLACEMENT PARTS LIST in order to look for the part number of each part.



• Packing Accessory Section

RUN DATE : 99 06 19
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	3835RP0037T	INSTRUCTION ASSY	(VS-J218EO) :FINLAND	
		801	3835RP0037U	INSTRUCTION ASSY	(VS-J418EO) :GERMANY	
		801	3835RP0037V	INSTRUCTION ASSY	(VS-J418EO) :SPAIN	
		801	3835RP0037W	INSTRUCTION ASSY	(VS-J200EO) :FINLAND	
		801	3835RP0037X	INSTRUCTION ASSY	(VS-J200EO) :GERMANY	
		801	3835RP0037Y	INSTRUCTION ASSY	(VS-J200EO) :SPAIN	
		802	3890R-H399A	BOX	(VS-J200EO)	
		802	3890R-H401A	BOX	(VS-J218EO) SW	
		802	3890R-H401B	BOX	(VS-J218EO) FL	
		802	3890R-H402A	BOX	(VS-J418EO)	
		803	3920R-0075A	PACKING	AK219I 0.02 1 EPS 1 1 1	
	OR	804	292-053A	BAG	SOFT(VCP)	NSP
		804	3858R-0006A	SHEET	ROLL(W630XL300MX0.5T)	NSP
		808	534-002C	BATTERY	1.5V AAM UM-3 LOL 1PAIR	
		810	861-505B	CABLE SET ASSY	RF-CABLE,ASSY,PAL	

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	3835RP0037Z	INSTRUCTION ASSY	(VS-J701EO-DN) :FINLAND	
		801	3835RP0042A	INSTRUCTION ASSY	(VS-J701EO-DN) :NETHERLAND	
		801	3835RP0042B	INSTRUCTION ASSY	(VS-J701EO-D) :GERMANY	
		801	3835RP0042C	INSTRUCTION ASSY	(VS-J701EO-DN) :PORTUGAL	
		802	3890R-H393A	BOX	(VS-J701EO-DN) :FILLAND	
		802	3890R-H394A	BOX	(VS-J701EO-DN) :NETHER/PORTUGA	
		802	3890R-H403A	BOX	(VS-J701EO-D) :GERMANY	
		803	3920R-0075A	PACKING	AK219I 0.02 1 EPS 1 1 1	
	OR	804	292-053A	BAG	SOFT(VCP)	NSP
		804	3858R-0006A	SHEET	ROLL(W630XL300MX0.5T)	NSP
		808	534-002C	BATTERY	1.5V AAM UM-3 LOL 1PAIR	
		810	861-505J	CABLE SET ASSY	RF-CABLE ASSY PAL FTZ	

RUN DATE : 99.06 18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	3835RP0037Q	INSTRUCTION ASSY	(VS-J718EO-D) :GERMANY	
		801	3835RP0037R	INSTRUCTION ASSY	(VS-J718EO-DN) :FINLAND	
		801	3835RP0037S	INSTRUCTION ASSY	(VS-J718EO-DN) :NETHERLAND	
		802	3890R-H392A	BOX	(VS-J718EO-DN)FINLA/NETHERLAND	
		802	3890R-H400A	BOX	(VS-J718EO-D N) :GERMANY	
		802	3890R-H400B	BOX	(VS-J718EO-D N) :GERMANY	
		803	3920R-0075A	PACKING	AK219I 0.02 1 EPS 1 1 1	
	OR	804	292-053A	BAG	SOFT(VCP)	NSP
		804	3858R-0006A	SHEET	ROLL(W630XL300MX0.5T)	NSP
		808	534-002C	BATTERY	1.5V AAM UM-3 LOL 1PAIR	
		810	861-505J	CABLE SET ASSY	RF-CABLE ASSY PAL FTZ	

• Remote Control Section

RUN DATE : 99.06.19
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	6711R2P016D	REMOTE CONTROLLER ASSY	(VS-J418EO/J218EO)	
		900	6711R2P016G	REMOTE CONTROLLER ASSY	(VS-J200EO)	

RUN DATE : 99.06.18
NSP: Not Service Part

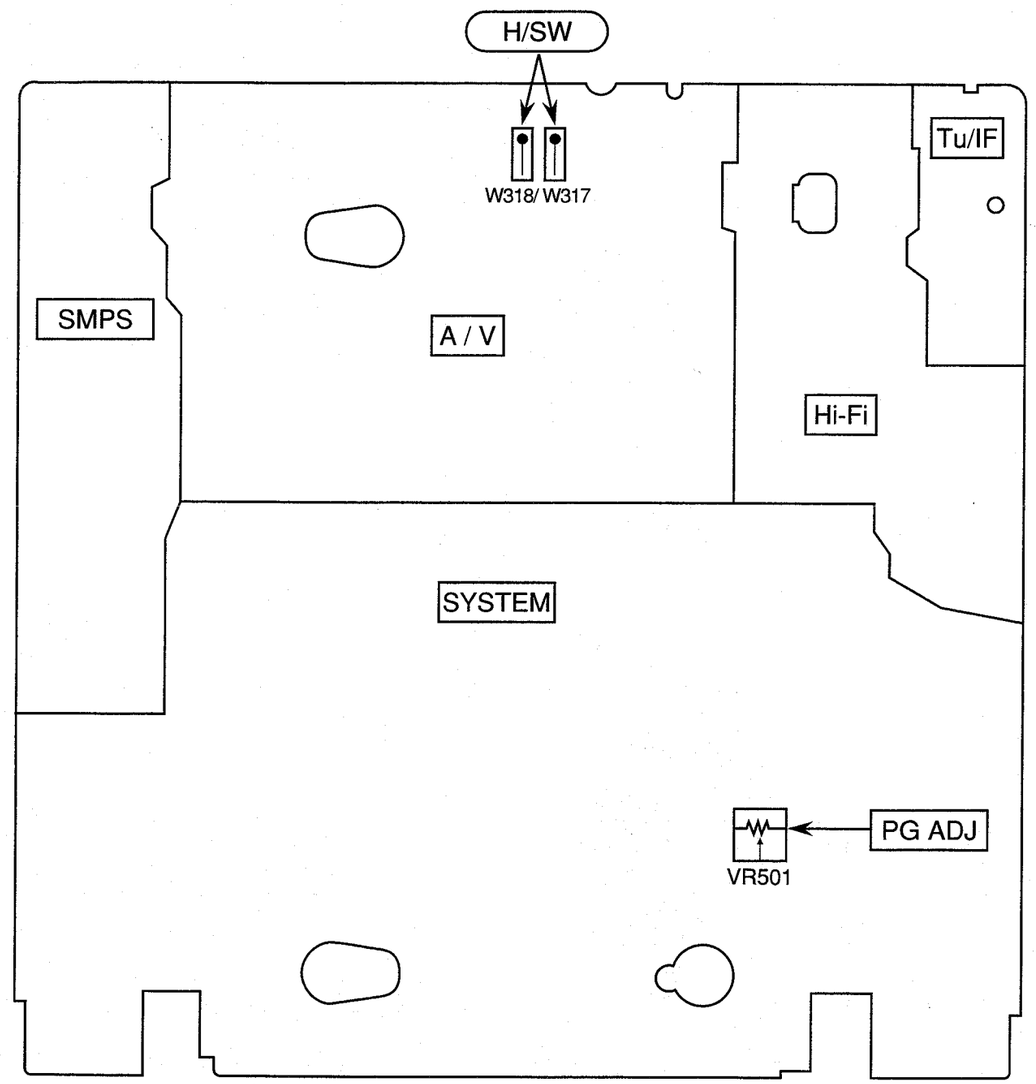
S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	6711R2P016G	REMOTE CONTROLLER ASSY	(A1:RC-Z101E)	

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	6711R2P017A	REMOTE CONTROLLER ASSY	(A1:RC-Y171E RC-Z122E)	

SECTION 3 ELECTRICAL
ELECTRICAL ADJUSTMENT POINTS ARRANGEMENT

: Measurement point
: Adjustment point



MAIN P.C.B **(Component Side)**

ELECTRICAL ADJUSTMENT PROCEDURES

1. Servo Adjustment

1) PG Adjustment

• Test Equipment

a) OSCILLOSCOPE

b) PAL TEST TAPE (VHS SP)

• Adjustment And Specification

MODE	MEASUREMENT POINT	ADJUSTMENT POINT	SPECIFICATION
PLAY	V.Out H/SW(W317, W318)	VR501	6.5 ± 0.5H

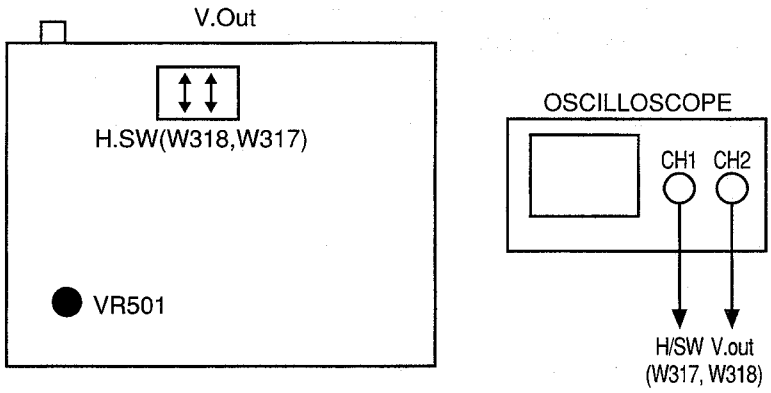
• **Adjustment Procedure**

a) Insert the PAL SP Test Tape and play.
Note - Adjust the distance of X, pressing the Tracking(+) or Tracking(-) when the "ATR" is blink after the PAL SP Test Tape is inserted.

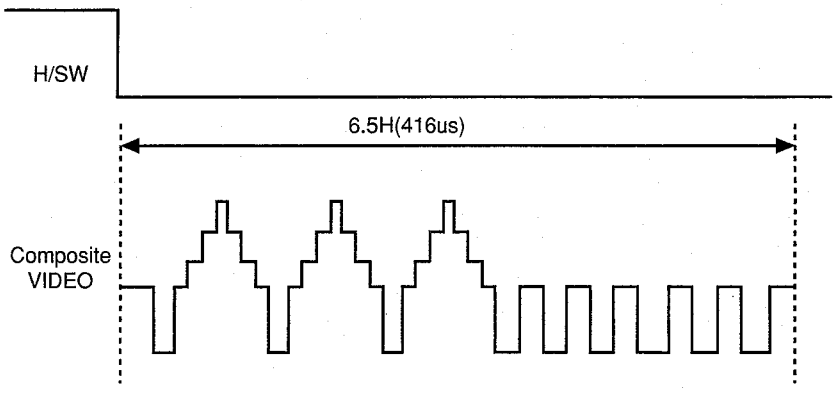
b) Connect the CH1 of the oscilloscope to the H/SW(W317, 318) and CH2 to the Video Out for the VCR.

ç) Trigger the mixed Video Signal of CH2 to the CH1 H.SW(W317, W318), and then check the distance (time difference), which is from the selected A(B) Head point of the H.SW(W317, W318) signal to the starting point of the vertical synchronized signal, to 6.5H ± 0.5H (412μs, 1H=63.5μs).

• **CONNECTION**



• **WAVEFORM**



2. Inital adjustment standards

1. I-HQ INITIAL ADJUSTMENT
   • Measuring instruments

a) REMOCON

b) NORMAL REC TEST TAPE (TF-556 (AF-751822J))

• CONDITION

MODE	VIDEO SIGNAL	REC TIME	CHECK
REC/PB	COLOR BAR	SP : MORE THAN 10 SEC LP : MORE THAN 10 SEC	CHECK "I-HQ OK" on DIGITRON after putting JIG KEY IN when Playing on each mode after Recording.

• HOW TO ADJUST

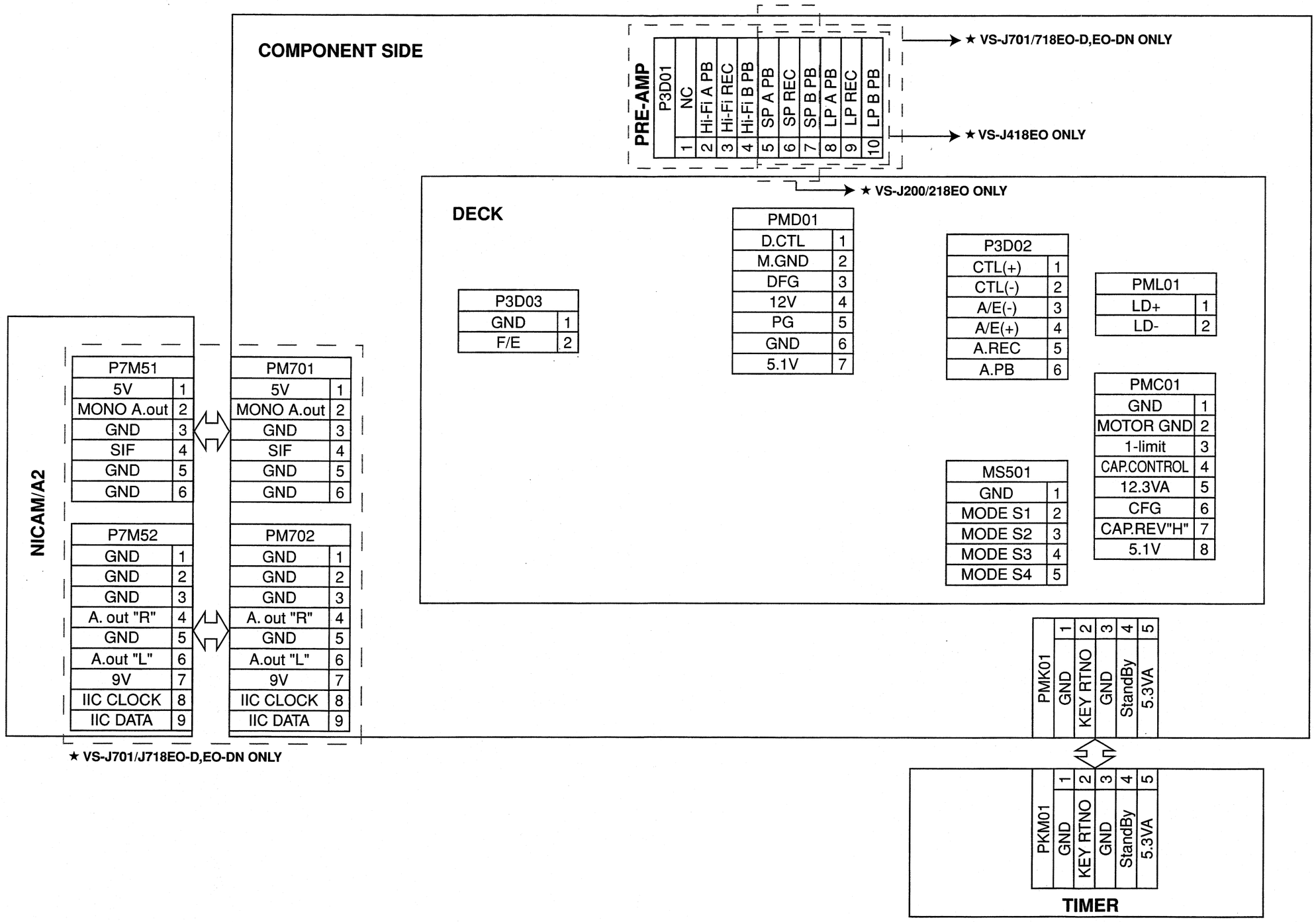
a) Please Reset the μ-COM(W5H5, W504)
b) Record in Nornal REC Tape on each SP/LP mode for 10 sec.
c) Put two keys at the same time (Play+CH UP key of VCR set) in While screen is playing on SP mode after rewinding (In this case check "I-HQ SP" on DIGITRON)
d) Put two keys at the same time (Play+CH UP key of VCR set) in while normal screen is playing on LP mode. (In this case check "I-HQ OK" on DIGITRON)

• CAUTION

a) I-HQ doesn't work normally if you don't use I-HQ Normal Tape(TF-556(AF-751822J)).
b) I-HQ doesn't work if the recording part finshed with I-HQ JIG KEY in.

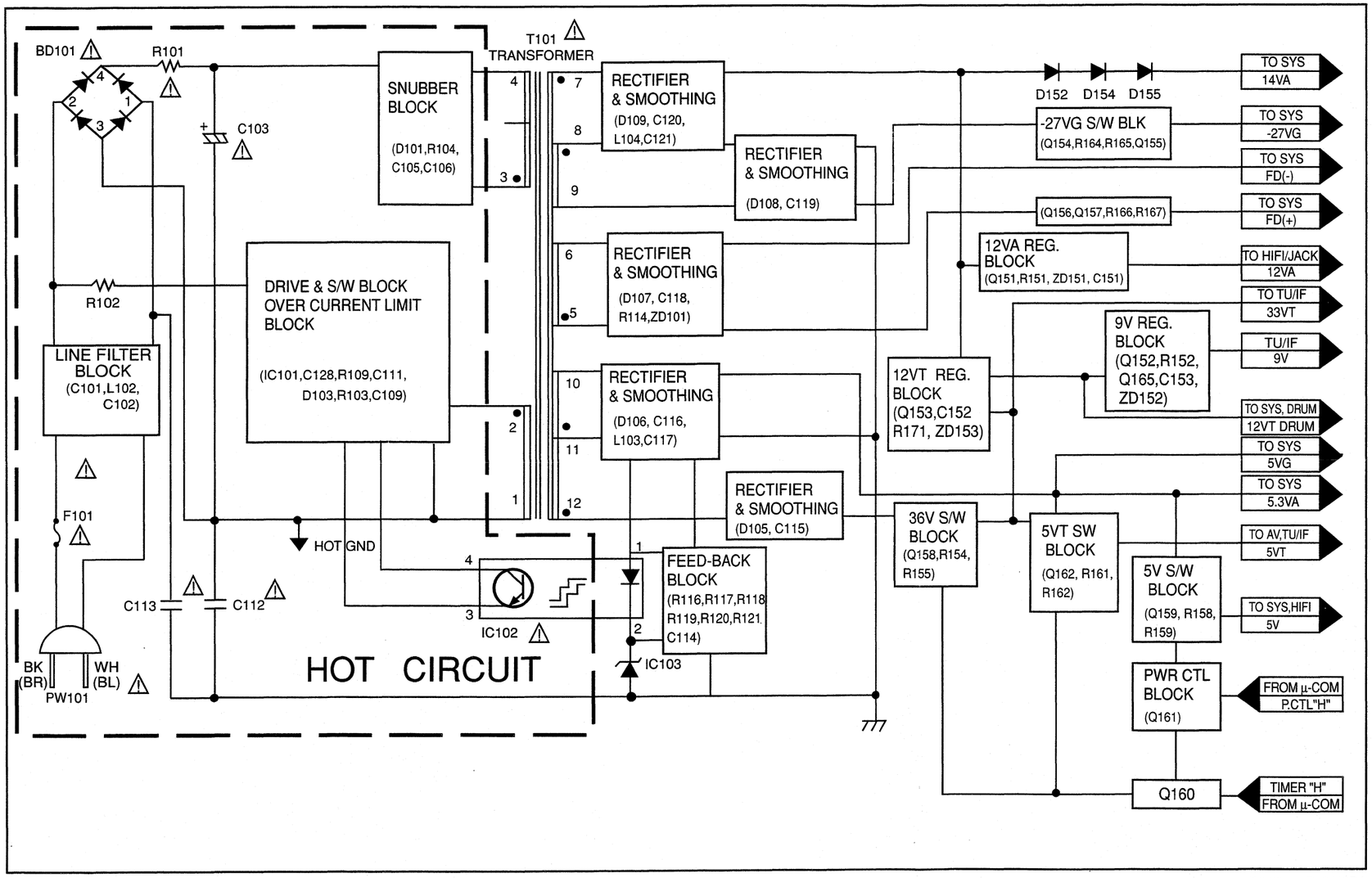
BLOCK & CIRCUIT DIAGRAMS

1. Overall Wiring Diagram



VIDE-V24601 / Druck3

2. Power Block Diagram



'99 06. 15 R10419BA

NOTES : Symbol denotes AC ground.
Symbol denotes DC chassis ground.

*** IC101 Voltage Sheet**

PB	16.1		4.0
REC	16.3		4.6
	5		
	IC101		
	1		
PB	309	0.0	0.0
REC	309	0.0	0.0

*** IC102 Voltage Sheet**

PB	4.0	0.0
REC	4.0	0.0
	4	
	IC102	
	1	
PB	4.9	3.9
REC	4.9	4.0

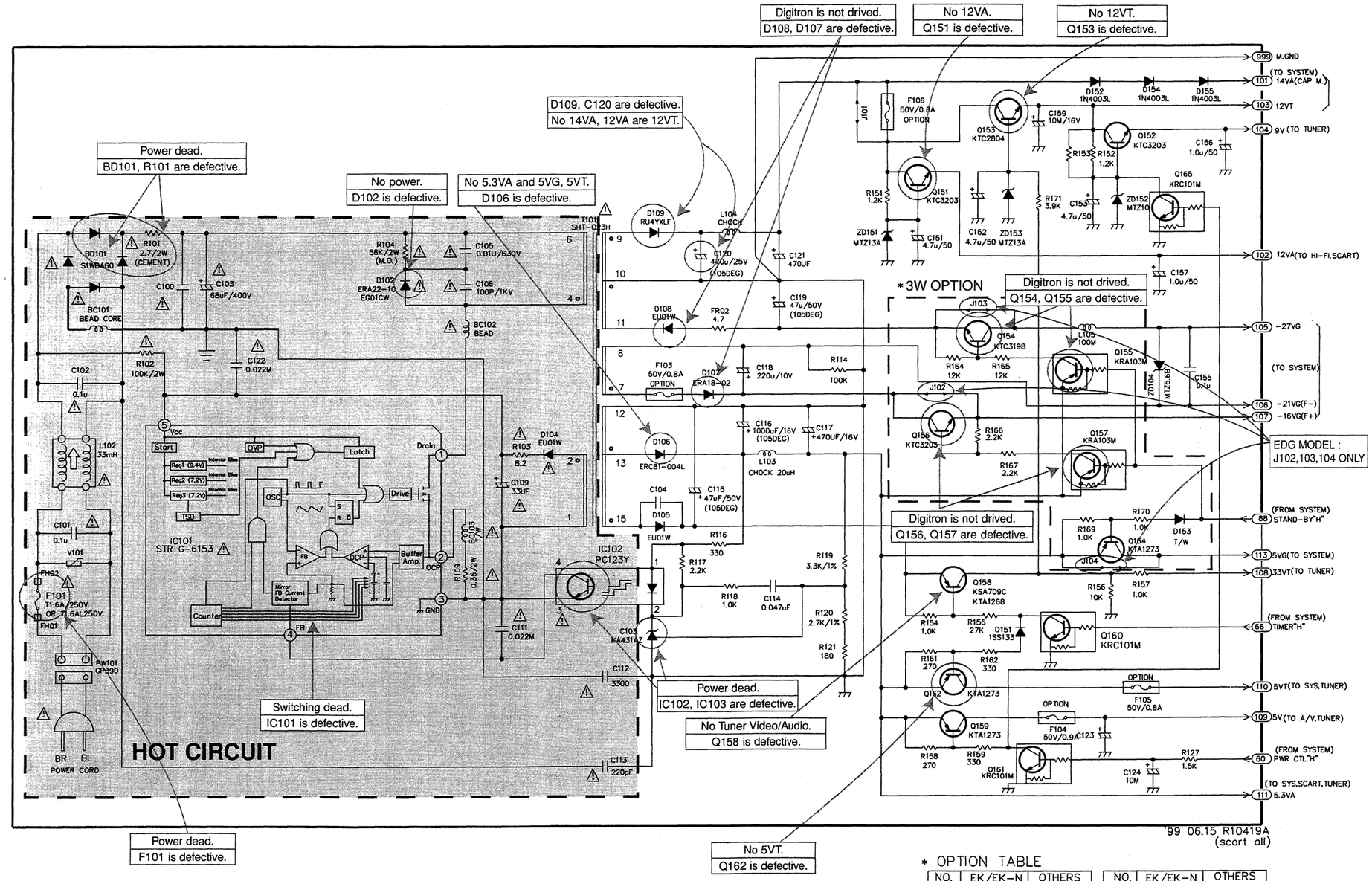
*** IC103 Voltage Sheet**

	Emitter		Collector		Base	
	PB	REC	PB	REC	PB	REC
IC103	2.5	2.5	0.0	0.0	3.9	3.9

★ TR Voltage Sheet

	Emitter		Collector		Base	
	PB	REC	PB	REC	PB	REC
Q151	11.9	11.8	14.8	15.0	12.5	12.4
Q152	9.4	9.3	11.8	11.6	10.0	9.9
Q153	11.8	11.7	14.8	15.0	12.4	12.3
Q154	-27.3	-27.9	-27.3	-27.8	-26.6	-27.0
Q155	5.3	5.3	5.2	5.3	0.0	0.0
Q156	-16.1	-16.5	-16.0	-16.4	-15.4	-15.7
Q157	5.3	5.3	5.2	5.2	0.0	0.0
Q158	35.6	36.0	35.3	35.7	35.0	35.4
Q159	5.3	5.3	5.2	5.2	4.5	4.5
Q160	0.0	0.0	0.0	0.0	5.0	5.0
Q161	0.0	0.0	0.1	0.0	5.0	5.0
Q162	5.3	5.3	5.2	5.2	4.5	4.5
Q164	5.3	5.3	5.3	5.3	4.6	4.6
Q165	0.0	0.0	10.0	10.0	0.0	0.0

2. Power Circuit Diagram



NOTES) ⏚ Symbol denotes AC ground.
⏚ Symbol denotes DC chassis ground.

NOTE) ⚠ Warning
Parts that are shaded are critical With respect to risk of fire or electricial shock.

NOTE :
1. Shaded(■) parts are critical for safety. Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmeter during TUNER mode.

LOCATION GUIDE

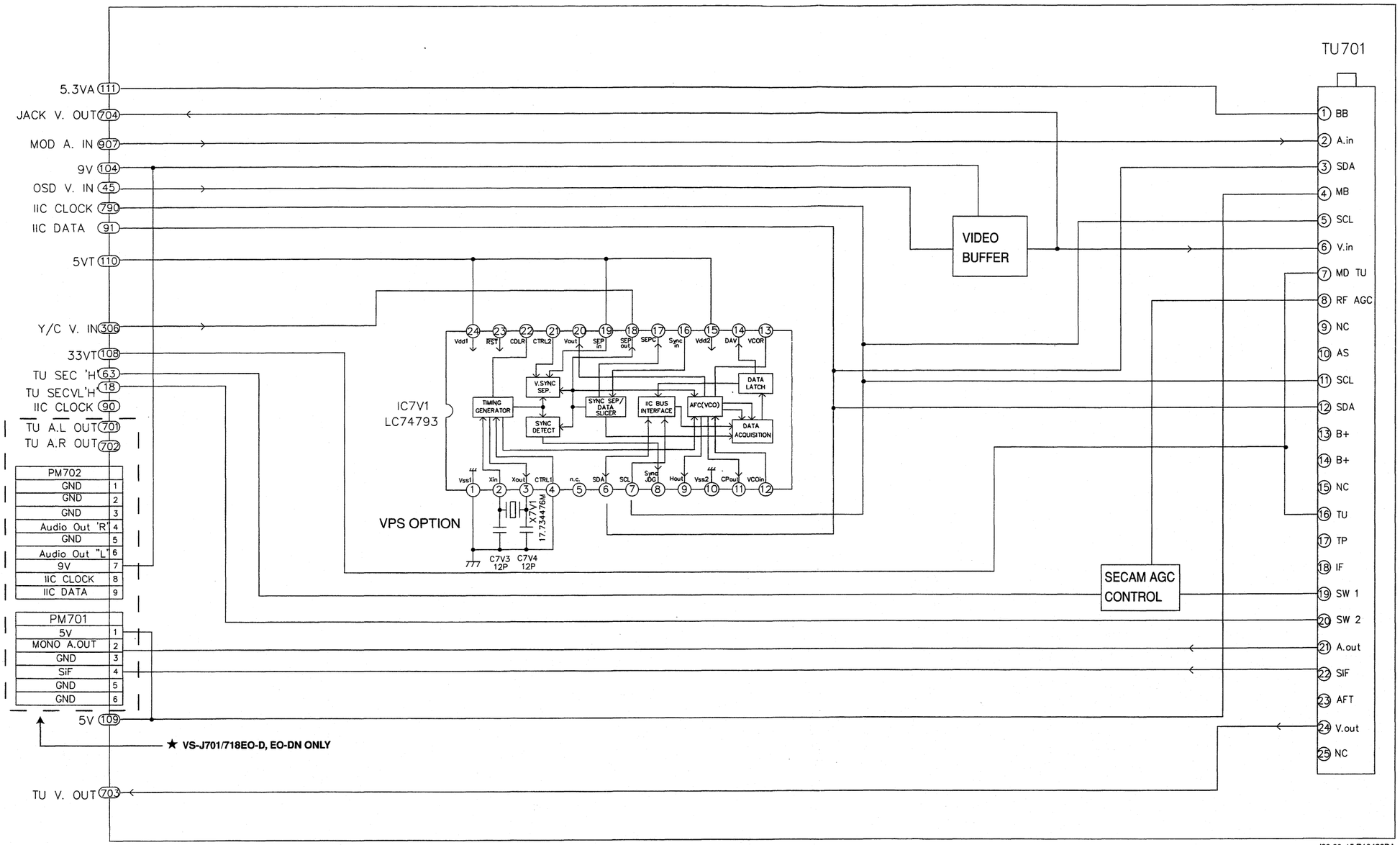
BC101	B6	J104	J4
BC102	E6	L102	B5
BC103	E4	L103	G5
BD101	B6	L104	G7
C100	B6	L105	J6
C101	A4	PW101	B3
C102	B5	Q151	I7
C103	C6	Q152	J7
C104	F4	Q153	I7
C105	E6	Q154	I6
C106	E6	Q155	J6
C109	E4	Q156	I5
C111	E3	Q157	J5
C112	F3	Q158	I4
C113	F2	Q159	I2
C114	G3	Q160	J3
C115	G4	Q161	I2
C116	G5	Q162	I3
C117	H5	Q164	J4
C118	G5	Q165	K7
C119	H6	R101	B6
C120	G6	R102	B5
C121	H6	R103	E5
C122	C5	R104	D6
C123	J2	R109	E4
C124	J2	R114	H5
C151	I6	R116	G4
C152	I7	R117	G4
C153	J7	R118	G3
C155	K5	R119	H4
C156	K7	R120	H3
C157	K6	R121	H3
C159	J8	R127	K2
D102	D6	R151	H7
D104	E5	R152	J7
D105	F4	R153	J7
D106	F5	R154	I3
D107	G5	R155	I3
D108	F6	R156	J4
D109	F7	R157	J4
D151	I3	R158	I2
D152	J8	R159	I2
D153	K4	R161	I3
D154	J8	R162	I3
D155	K8	R164	I5
F103	F5	R165	I5
F104	J2	R166	I5
F105	J3	R167	I5
F106	I8	R169	J4
FH01	A3	R170	J4
FH02	A4	R171	J7
FR02	G6	T101	F7
IC101	B4	V101	B4
IC102	F4	ZD104	K5
IC103	F3	ZD151	H7
J101	H7	ZD152	J7
J102	I5	ZD153	I7
J103	I6		

* OPTION TABLE

NO.	EK/EK-N	OTHERS
F102	585-035U	X
F103	iCP-N20	X
F104	iCP-N20	X
F105	iCP-N20	X
F106	iCP-N20	X

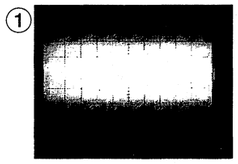
NO.	EK/EK-N	OTHERS
F107	iCP-N20	X
F108	585-035U	X
R106	100	470

3. Tu/IF Block Diagram

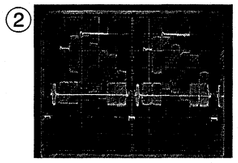


'99 06. 15 R10422BA

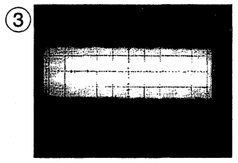
* TU/IF Oscilloscope Waveform

① 

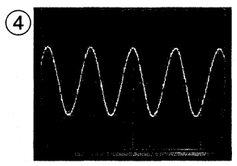
TU701 18 Pin
(IF Signal)

② 

TU701 24 Pin
(Video Signal)

③ 

TU701 22 Pin
(SIF Signal)

④ 

TU701 21 Pin
(Audio signal)

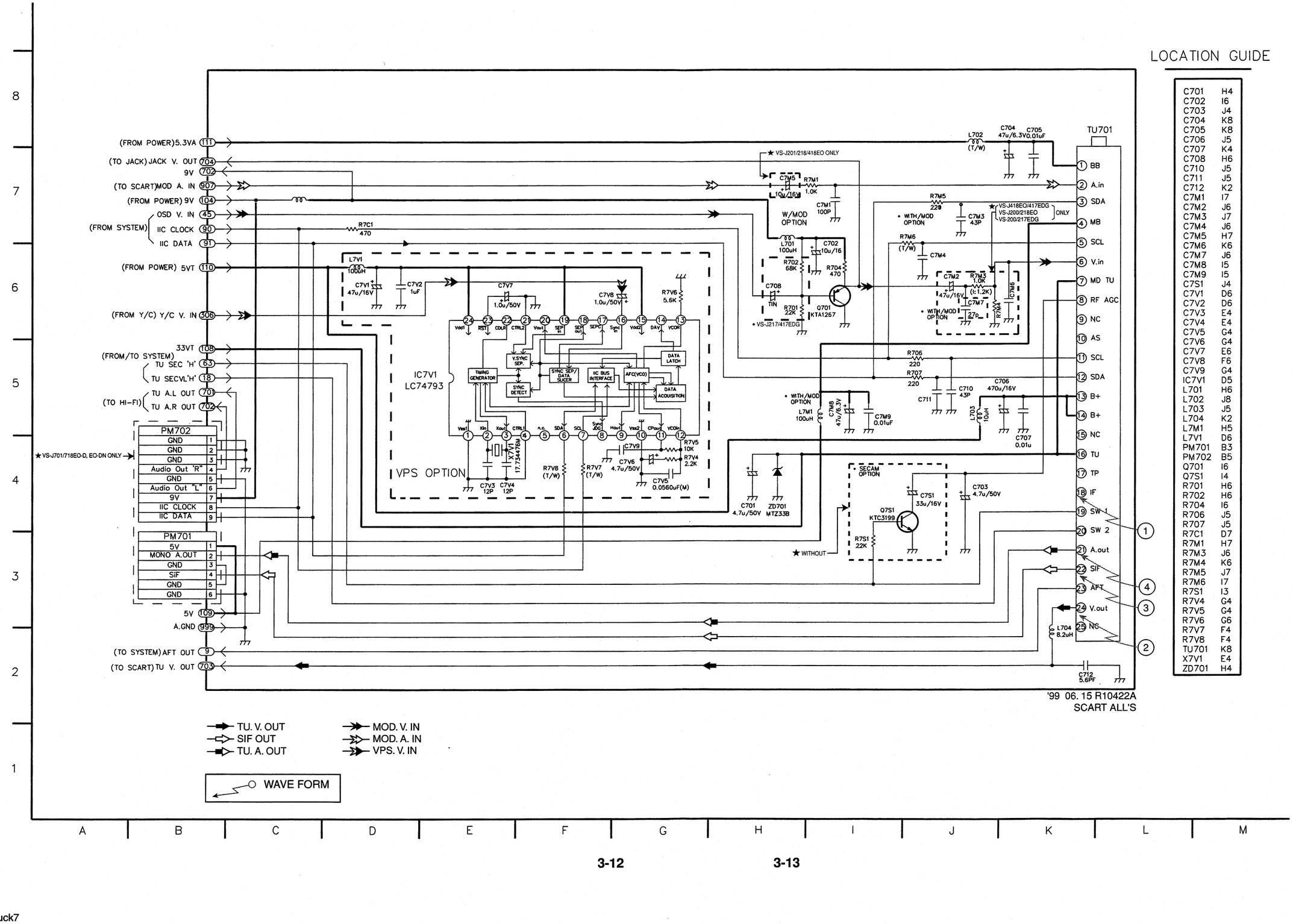
* IC7V1 Voltage Sheet

5.022	4.997	4.497	0.002	4.969	5.032	4.602	2.53	2.933	5.032	0.159	1.276													
					20				15															
					IC7V1(LC74793)																			
					5				10															
0.003	2.553	2.627	0.002	0.001	5.2	5.2	5.012	4.645	0.003	2.993	2.992													

* TU701 Voltage Sheet

1	BB	5.25	13	B+	4.985
2	A.iN	0.002	14	B+	4.985
3	SEA	5.1	15	NC	0
4	MB	5.19	16	TU	32.29
5	SCL	5.2	17	TP	0
6	V.iN	0	18	IF	0
7	MD TU	32.27	19	SW1	5.0541
8	KF AGC	2.55	20	SW2	0
9	NC	0	21	A.OUT	2.38
10	AS	0.048	22	SiF	0
11	SCL	5.1	23	AFT	2.463
12	SEA	5.2	24	V.OUT	1.337
			25	NC	0

3. Tu/IF Circuit Diagram

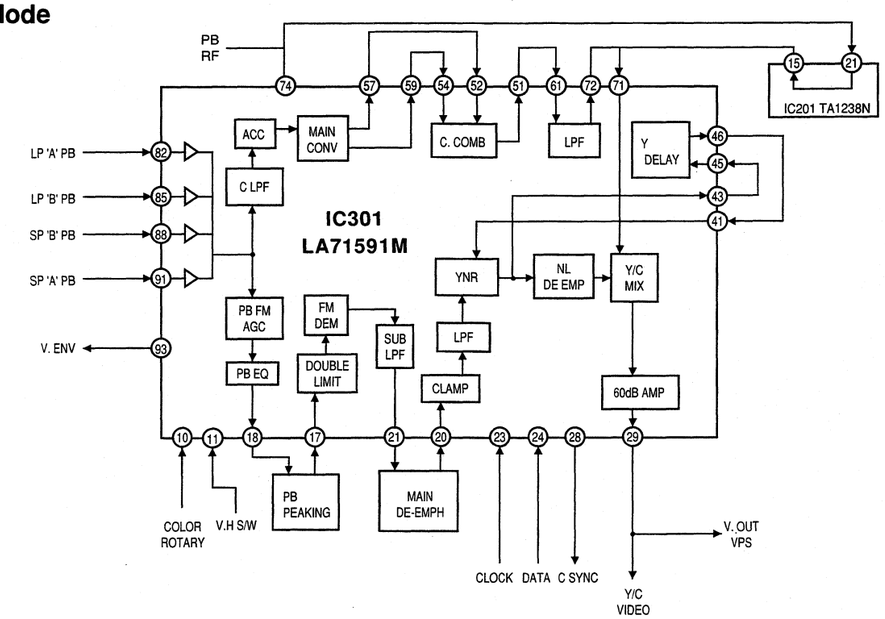


LOCATION GUIDE

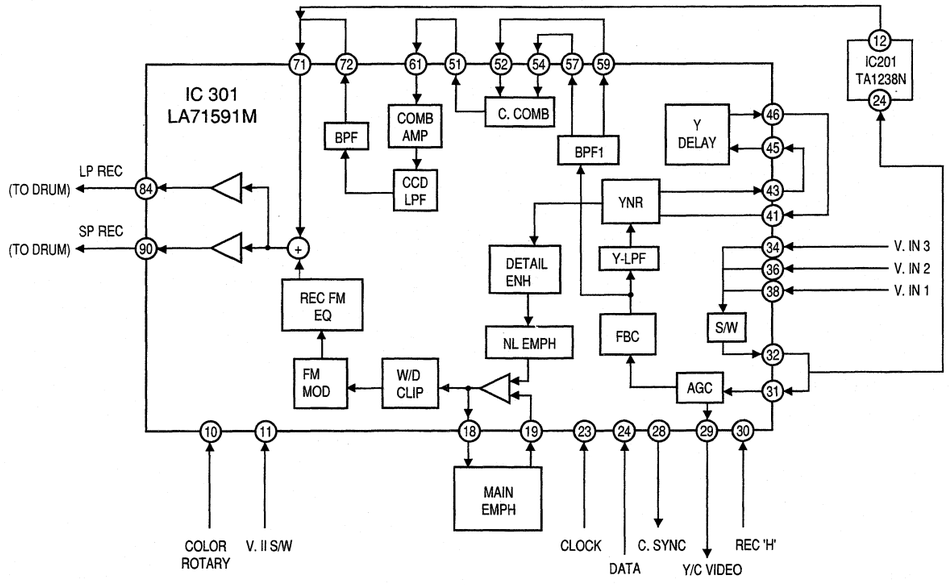
C701	H4
C702	I6
C703	J4
C704	K8
C705	K8
C706	J5
C707	K4
C708	H6
C710	J5
C711	J5
C712	K2
C7M1	I7
C7M2	J6
C7M3	J7
C7M4	J6
C7M5	H7
C7M6	K6
C7M7	J6
C7M8	I5
C7M9	I5
C7S1	J4
C7V1	D6
C7V2	D6
C7V3	E4
C7V4	E4
C7V5	G4
C7V6	G4
C7V7	E6
C7V8	F6
C7V9	G4
IC7V1	D5
L701	H6
L702	J8
L703	J5
L704	K2
L7M1	H5
L7V1	D6
PM701	B3
PM702	B5
Q701	I6
Q7S1	I4
R701	H6
R702	H6
R704	I6
R706	J5
R707	J5
R7C1	D7
R7M1	H7
R7M3	J6
R7M4	K6
R7M5	J7
R7M6	I7
R7S1	I3
R7V4	G4
R7V5	G4
R7V6	G6
R7V7	F4
R7V8	F4
TU701	K8
X7V1	E4
ZD701	H4

4. Y/C Block Diagram

1) PB Mode

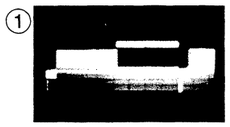


2) REC Mode



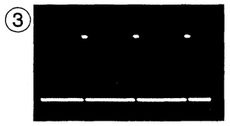
WAVEFORM & VOLTAGE SHEET

★ IC301 Oscilloscope Waveform

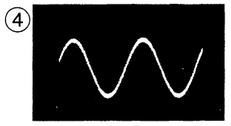


① IC301 Pin ⑳
PB mode
500mvp-p

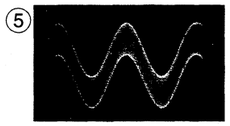
② IC301 Pins ㊳,㉜, ㉛
Video in
1Vp-p



③ IC301 Pin ㉘
PB/REC mode
4.2Vp-p



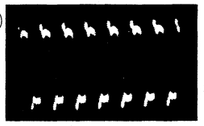
④ IC301 Pin ⑦
REC mode
1.4Vp-p



⑤ IC301 Pin ⑥
REC mode
2.2Vp-p

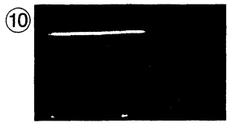
⑥ IC301 Pin ㉙
PB mode
2.1Vp-p

⑦ IC301 Pin ㊶
PB mode
400mVp-p



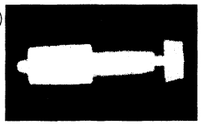
⑧ IC301 Pin ㊹
PB mode
600mVp-p

⑨ IC301 Pin ㉓
PB/REC mode
5Vp-p

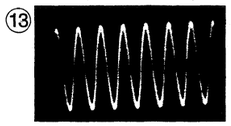


⑩ IC301 Pin ㉔
PB/REC mode
5Vp-p

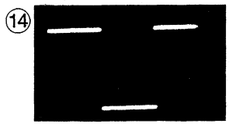
⑪ IC301 Pins ㊶ , ㊷
REC mode
340mVp-p



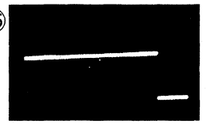
⑫ IC301 Pins ㊶, ㊷, ㊹
PB mode
300mVp-p



⑬ IC301 Pin ㊸
PB mode
600mVp-p



⑭ IC301 Pin ⑪
PB mode
3.2Vp-p



⑮ IC301 Pin ⑩
PB mode
1.8Vp-p

⑯ IC301 Pin ㊸
PB mode
400mVp-p

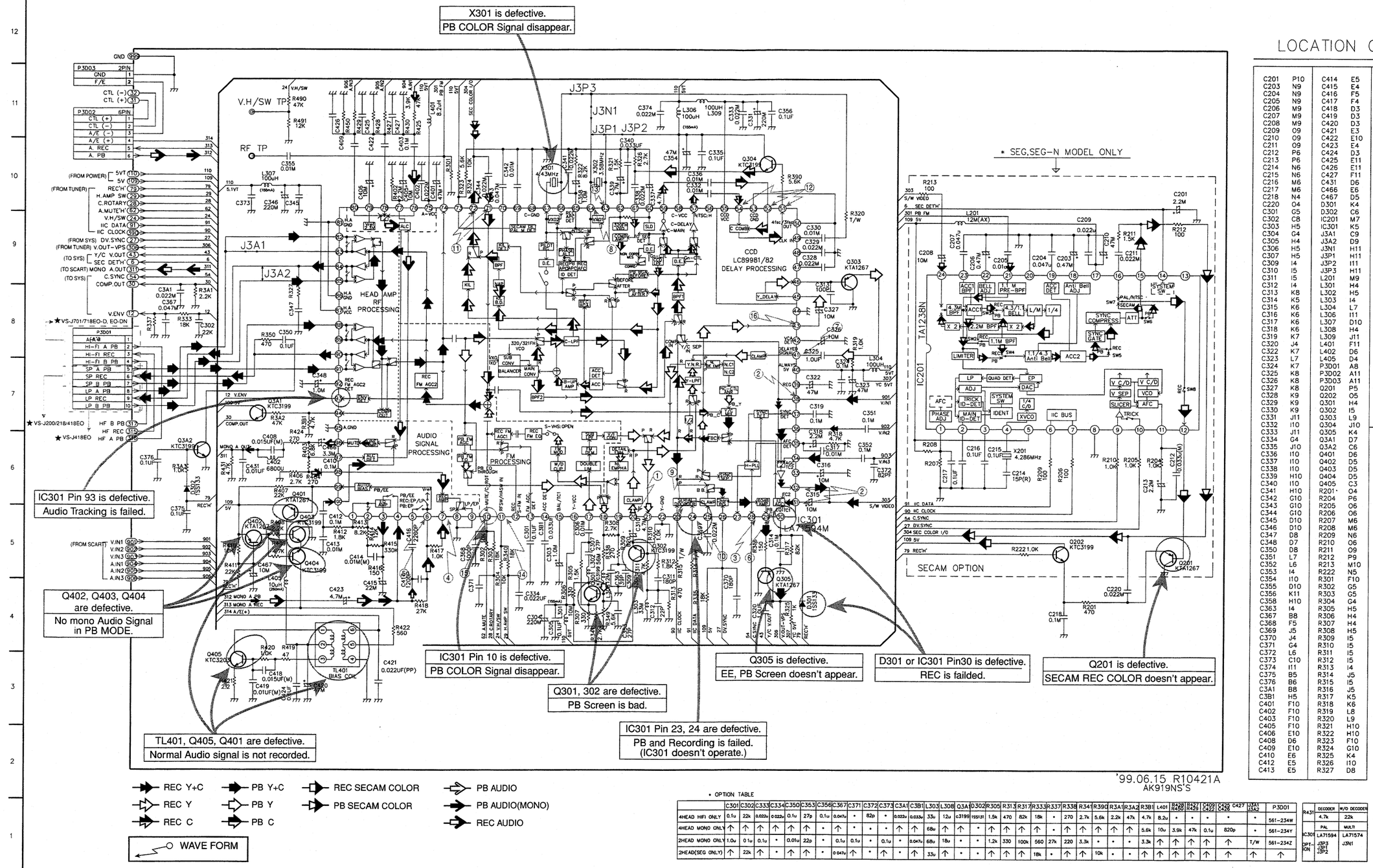
★ IC301 Voltage Sheet

PIN	PB	REC	PIN	PB	REC	PIN	PB	REC	PIN	PB	REC	PIN	PB	REC
1	2.44	2.41	21	2.15	2.54	41	3.02	2.9	61	3.36	3.43	81	0.0	0.0
2	2.44	2.41	22	0.0	0.0	42	2.79	3.1	62	3.47	3.45	82	0.01	0.01
3	2.47	2.52	23	4.85	4.85	43	1.96	2.11	63	5.0V	5.0V	83	0.01	0.01
4	2.45	2.39	24	4.85	4.85	44	0.17	0.17	64	5.0V	5.0V	84	0.76	0.69
5	0.05	2.4	25	0.0	0.0	45	1.53	2.26	65	2.06	1.35	85	0.76	0.69
6	2.47	2.42	26	0.07	0.07	46	1.64	1.5	66	2.63	2.75	86	0.0	0.0
7	2.47	2.42	27	0.34	0.34	47	9.59	9.53	67	3.9	3.72	87	4.97	4.99
8	0.0	0.0	28	0.34	0.34	48	2.21	2.33	68	0.0	0.0	88	1.89	4.84
9	0.0	0.0	29	1.73	1.94	49	0.88	0.89	69	0.63	0.6	89	0.0	0.0
10	0.97	0.97	30	1.09	4.35	50	0.0	0.0	70	1.98	2.83	90	1.89	0.0
11	1.7	1.7	31	2.88	2.88	51	1.94	1.9	71	2.5	2.43	91	1.89	4.84
12	5.05	2.69	32	1.5	2.27	52	2.59	2.59	72	3.26	3.02	92	0.21	0.23
13	1.5	1.42	33	1.87	1.31	53	0.0	0.0	73	3.4	3.36	93	4.23	0.02
14	1.9	1.53	34	1.82	3.31	54	2.62	2.58	74	1.8	0.01	94	0.01	0.25
15	2.3	2.31	35	1.26	3.36	55	5.07	5.01	75	4.99	4.95	95	0.0	0.0
16	5.07	5.02	36	1.82	3.31	56	0.22	0.53	76	2.44	2.44	96	2.26	2.26
17	3.03	0.17	37	1.61	4.73	57	3.38	3.43	77	0.01	0.01	97	0.0	0.0
18	1.87	2.47	38	2.14	2.24	58	5.01	4.98	78	2.44	2.44	98	2.44	1.62
19	1.12	2.47	39	4.05	4.06	59	3.3	3.36	79	2.47	2.44	99	4.97	4.11
20	2.98	3.04	40	5.08	5.02	60	3.46	3.43	80	2.38	1.92	100	2.44	3.26

★ TR Voltage Sheet

	PB mode			REC mode		
	E	C	B	E	C	B
Q301	1.18	4.32	1.8	1.71	3.75	2.34
Q302	1.3	5.09	1.9	1.89	5.09	2.51
Q303	2.62	0.0	2.05	2.17	0.0	1.53
Q304	1.36	5.08	1.93	1.34	5.02	1.9
Q305	2.43	0.0	1.75	2.53	0.0	0.55

4. A/V Circuit Diagram



'99.06.15 R10421A
AK919NS'S

• OPTION TABLE

	C301	C302	C333	C334	C350	C353	C356	C367	C371	C372	C373	C3A1	C3B1	L303	L308	Q3A	D302	R305	R313	R317	R333	R337	R338	R341	R390	R3A1	R3A2	R3B1	L401	R428/R429	R426/R427	C409/C422	C425/C428	C427	U3A1/U3A2	P3D01
4HEAD HIFI ONLY	0.1u	22k	0.022u	0.022u	0.1u	27p	0.1u	0.047u	•	82p	•	0.022u	0.033u	33u	12u	c3199	1SS131	1.5k	470	82k	18k	•	270	2.7k	5.6k	2.2k	47k	4.7k	8.2u	•	•	•	•	•	•	561-234W
4HEAD MONO ONLY	↑	↑	↑	↑	↑	↑	•	↑	•	•	•	↑	↑	68u	↑	↑	•	↑	↑	↑	↑	•	↑	↑	↑	↑	↑	5.6k	10u	3.9k	47k	0.1u	820p	•	561-234Y
2HEAD MONO ONLY	1.0u	0.1u	0.1u	•	0.01u	22p	•	0.1u	0.1u	•	0.1u	•	0.047u	68u	18u	•	•	1.2k	330	100k	560	27k	220	3.3k	•	•	•	3.3k	↑	↑	↑	↑	↑	T/W	561-234Z
2HEAD(SEG ONLY)	↑	22k	↑	•	↑	↑	•	0.047u	↑	•	↑	•	↑	33u	↑	•	•	↑	↑	↑	18k	•	↑	↑	10k	•	•	↑	↑	↑	↑	↑	↑	↑	↑	

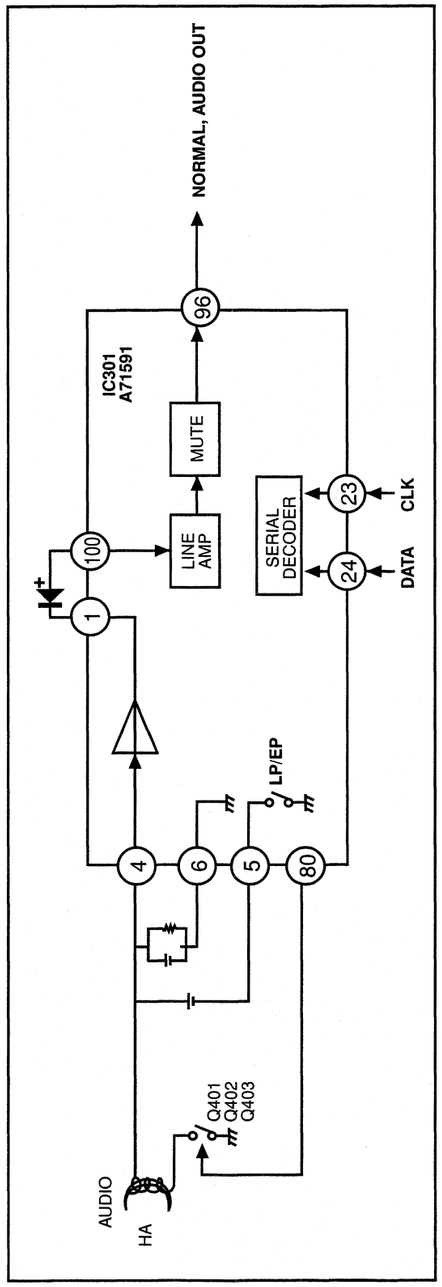
R431	DECODER	W/O DECODER
	4.7k	22k
IC301	PAL	MULTI
	LA71594	LA71574
OPTION	J3D3 J3D1 J3P2	J3N1

LOCATION GUIDE

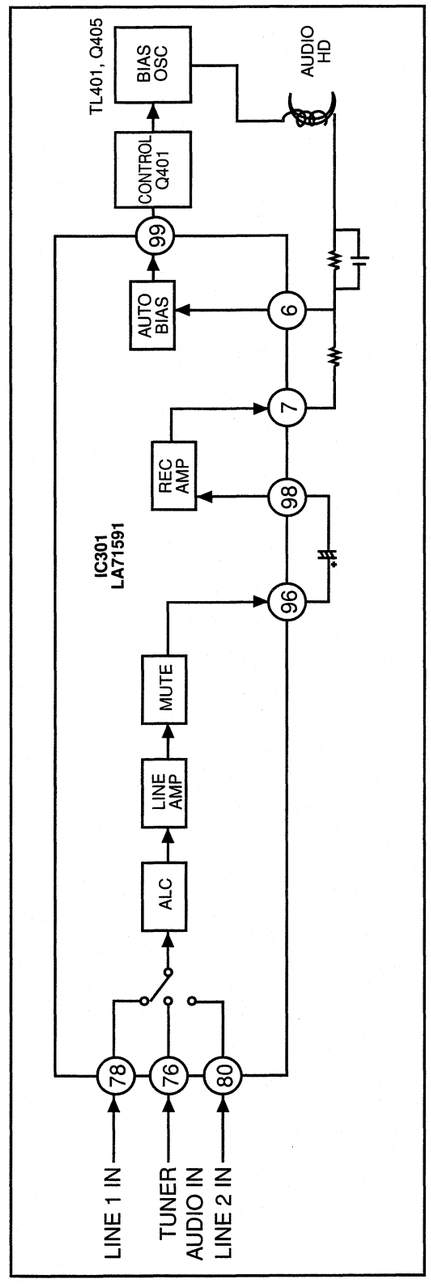
C201	P10	C414	E5	R333	C8
C203	N9	C415	E4	R335	J4
C204	N9	C416	F5	R337	B8
C205	N9	C417	F4	R338	H5
C206	M9	C418	D3	R340	G5
C207	M9	C419	D3	R341	H4
C208	M9	C420	D3	R349	H4
C209	O9	C421	E3	R350	D8
C210	O9	C422	E10	R390	K10
C211	O9	C423	E4	R3A1	C8
C212	P6	C424	D3	R3A2	D7
C213	P6	C425	E11	R3A3	C6
C214	N6	C426	E11	R3B1	D7
C215	N6	C427	F11	R402	F10
C216	M6	C431	D6	R403	D6
C217	M6	C466	E6	R404	D6
C218	N4	C467	D5	R406	D6
C220	O4	D301	K4	R407	D6
C301	G5	D302	C6	R408	D5
C302	C8	IC201	M7	R409	D5
C303	H5	IC301	K5	R410	C5
C304	G4	J3A1	C9	R411	C5
C305	H4	J3A2	D9	R412	E5
C306	H5	J3N1	H11	R413	E5
C307	H5	J3P1	H11	R414	E5
C309	I4	J3P2	I11	R415	E5
C310	I5	J3P3	H11	R416	E5
C311	I5	L201	M9	R417	F5
C312	I4	L301	H4	R418	F4
C313	K8	L302	H5	R419	D4
C314	K5	L303	I4	R420	D4
C315	K6	L304	L7	R421	C3
C316	K6	L306	I11	R422	F4
C317	K6	L307	D10	R424	D6
C318	K6	L308	H4	R425	F11
C319	K7	L309	J11	R427	E11
C320	J4	L401	F11	R428	E11
C322	K7	L402	D6	R429	E11
C323	L7	L405	D4	R430	F11
C324	K7	P3D01	A8	R431	C6
C325	K8	P3D02	A11	R450	E11
C326	K8	P3D03	A11	R490	D11
C327	K8	Q201	P5	R491	D11
C328	K9	Q202	O5	TL401	E3
C329	K9	Q301	H4	X201	N6
C330	K9	Q302	I5	X301	G10
C331	J11	Q303	L9	X302	H10
C332	I10	Q304	J10		
C333	J11	Q305	K4		
C334	G4	Q3A1	D7		
C335	J10	Q3A2	C6		
C336	I10	Q401	D6		
C337	I10	Q402	D5		
C338	I10	Q403	D5		
C339	H10	Q404	D5		
C340	I10	Q405	C3		
C341	H10	R201	O4		
C342	G10	R204	P6		
C343	G10	R205	O6		
C344	G10	R206	O6		
C345	D10	R207	M6		
C346	D10	R208	M6		
C347	D8	R209	N6		
C348	D7	R210	O6		
C350	D8	R211	O9		
C351	L7	R212	P9		
C352	L6	R213	M10		
C353	I4	R222	N5		
C354	I10	R301	F10		
C355	D10	R302	G5		
C356	K11	R303	G5		
C358	H10	R304	G4		
C363	I4	R305	H5		
C367	B8	R306	H4		
C368	F5	R307	H4		
C369	J5	R308	H5		
C370	J4	R309	I5		
C371	G4	R310	I5		
C372	L6	R311	I5		
C373	C10	R312	I5		
C374	I11	R313	I4		
C375	B5	R314	J5		
C376	B6	R315	I5		
C3A1	B8	R316	J5		
C3B1	H5	R317	K5		
C401	F10	R318	K6		
C402	F10	R319	L8		
C403	F10	R320	L9		
C405	F10	R321	H10		
C406	E10	R322	H10		
C408	D6	R323	F10		
C409	E10	R324	G10		
C410	E6	R325	K4		
C412	E5	R326	I10		
C413	E5	R327	D8		

4. Audio Block Diagram (VS-J200/218/418EO)

1) PB Mode

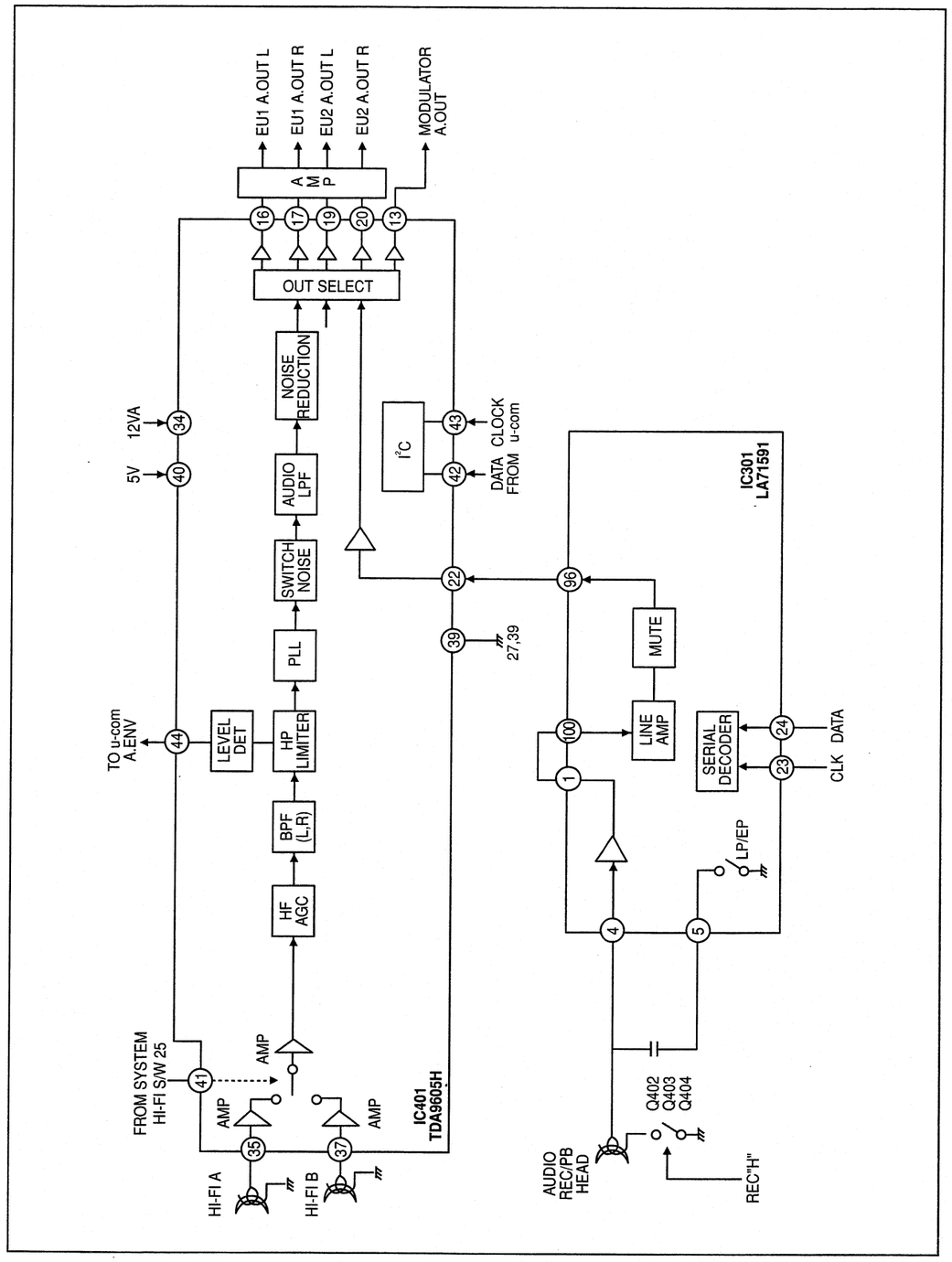


2) REC Mode

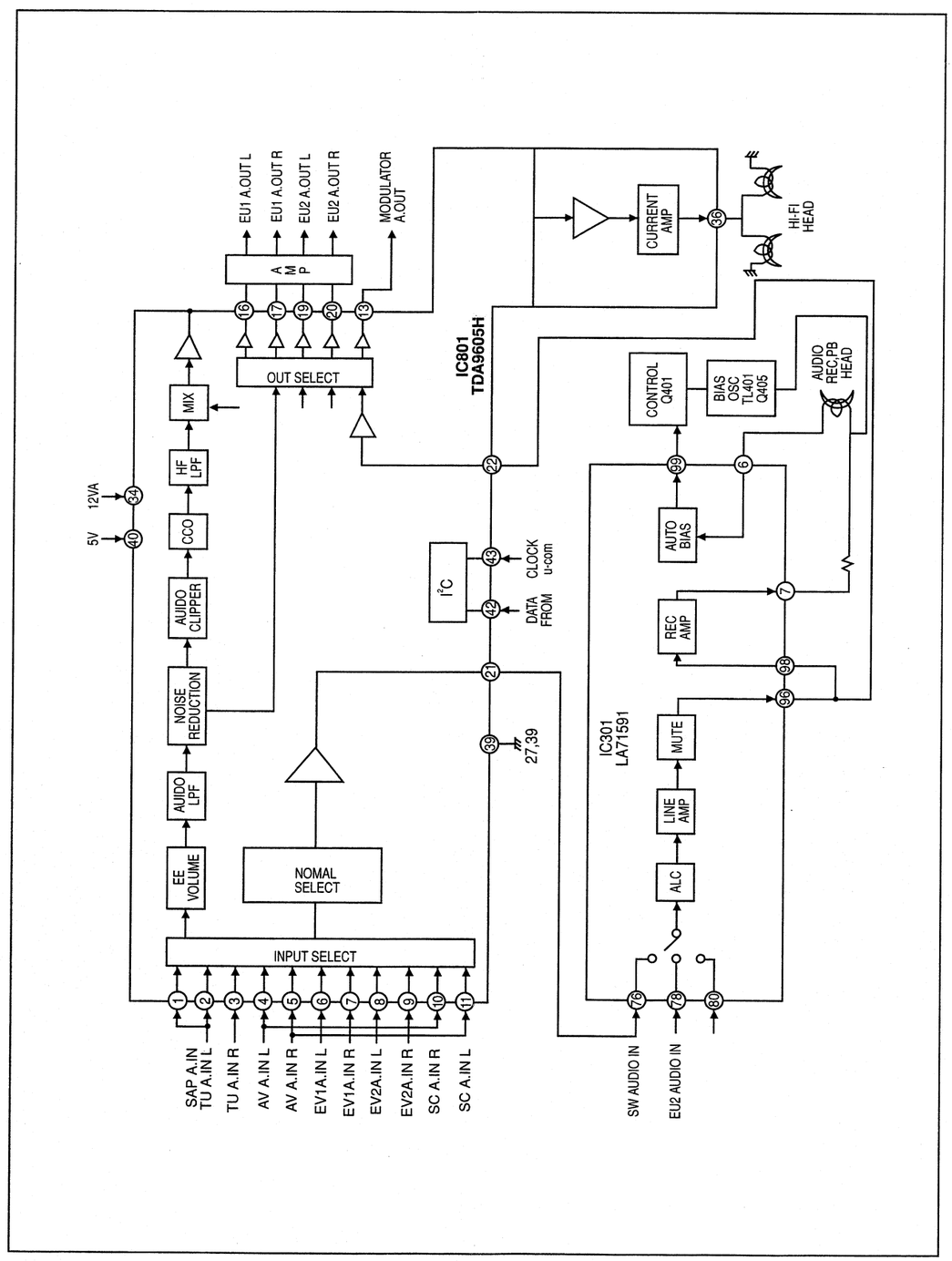


4. Hi-Fi Block Diagram (VS-J701/718EO-D,EO-DN)

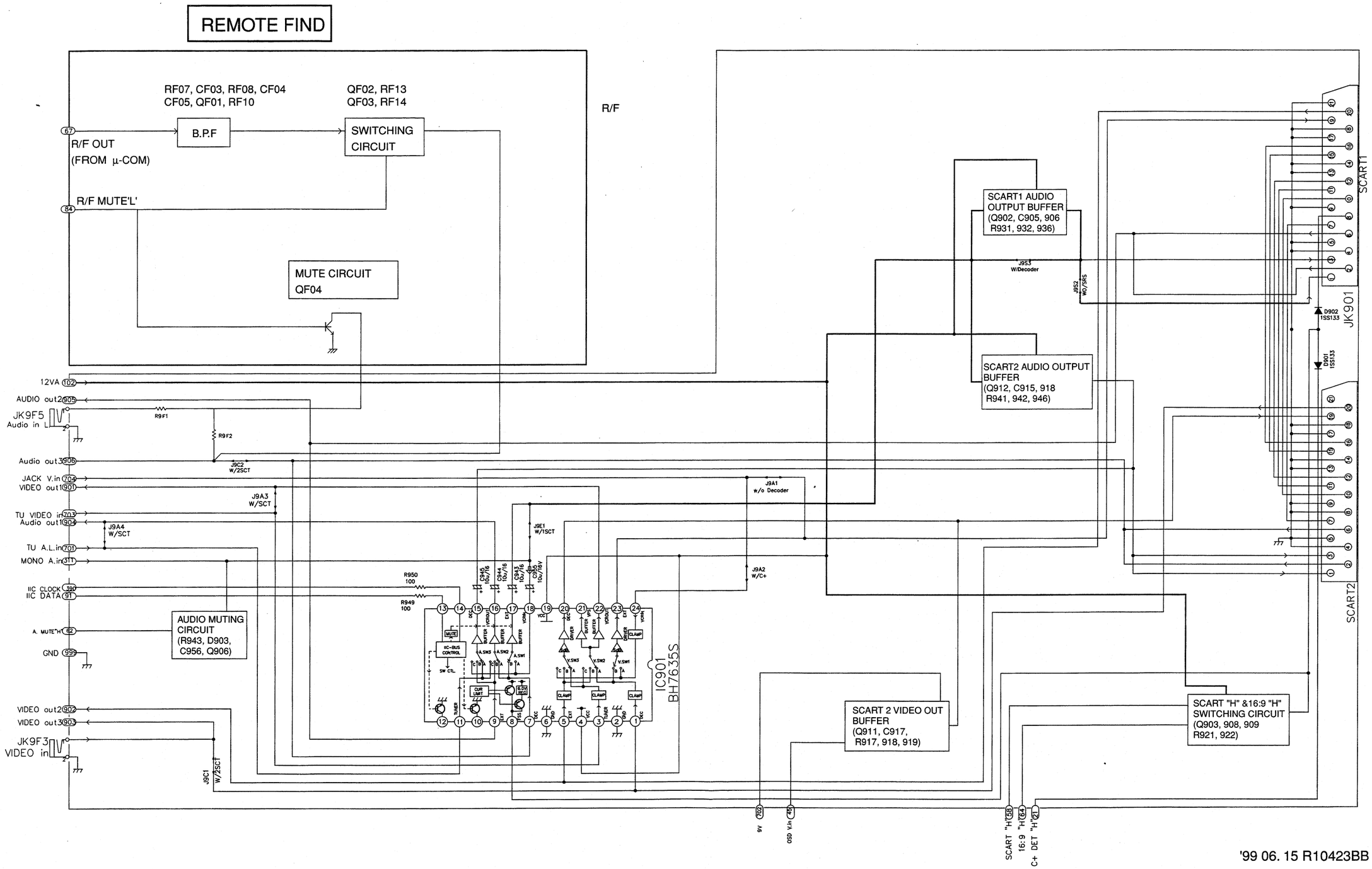
1) PB Mode



2) REC Mode

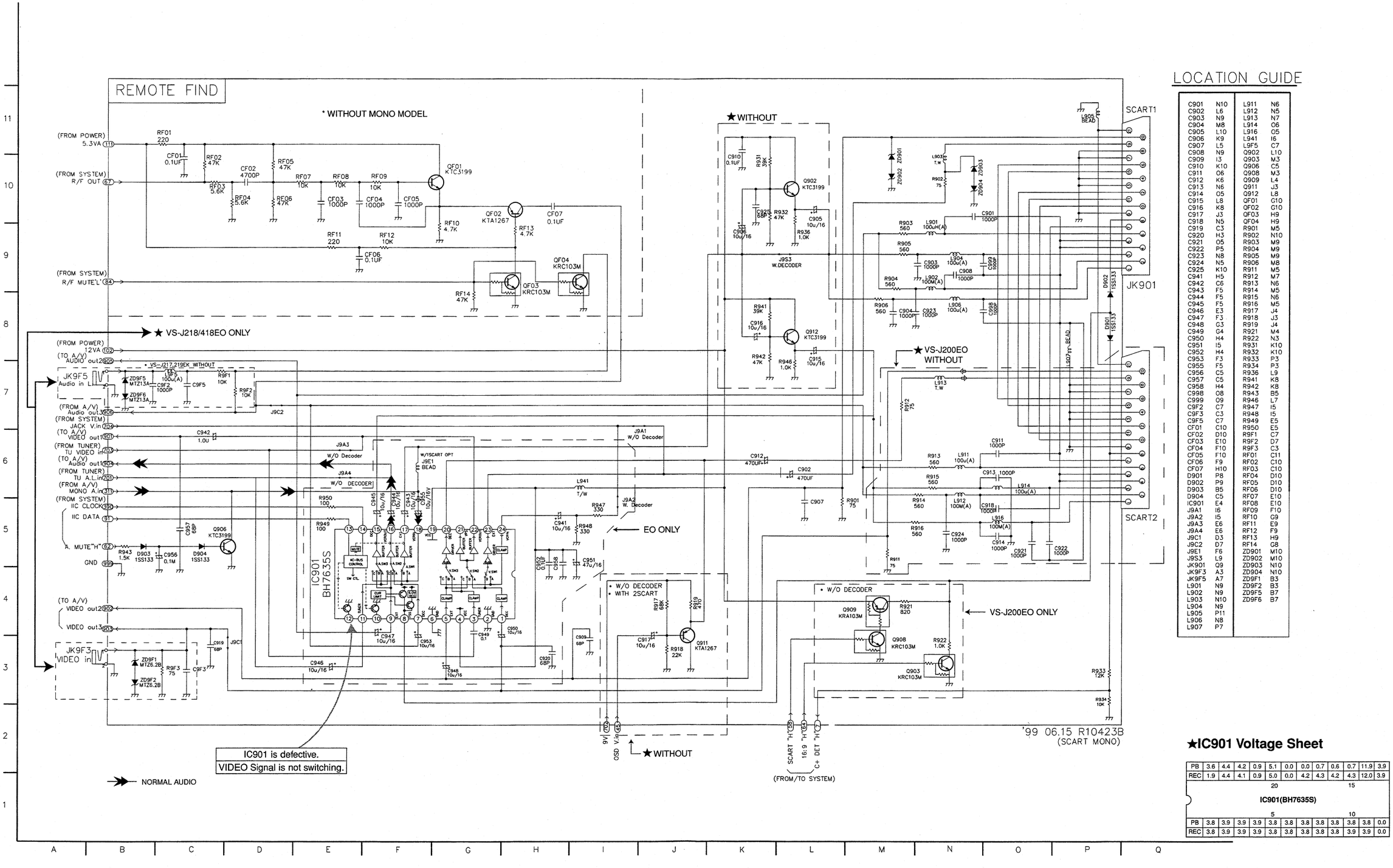


5. SCART Block Diagram (VS-J200/218/418EO)



'99 06. 15 R10423BB

5. SCART Circuit Diagram (VS-J200/218/418EO)



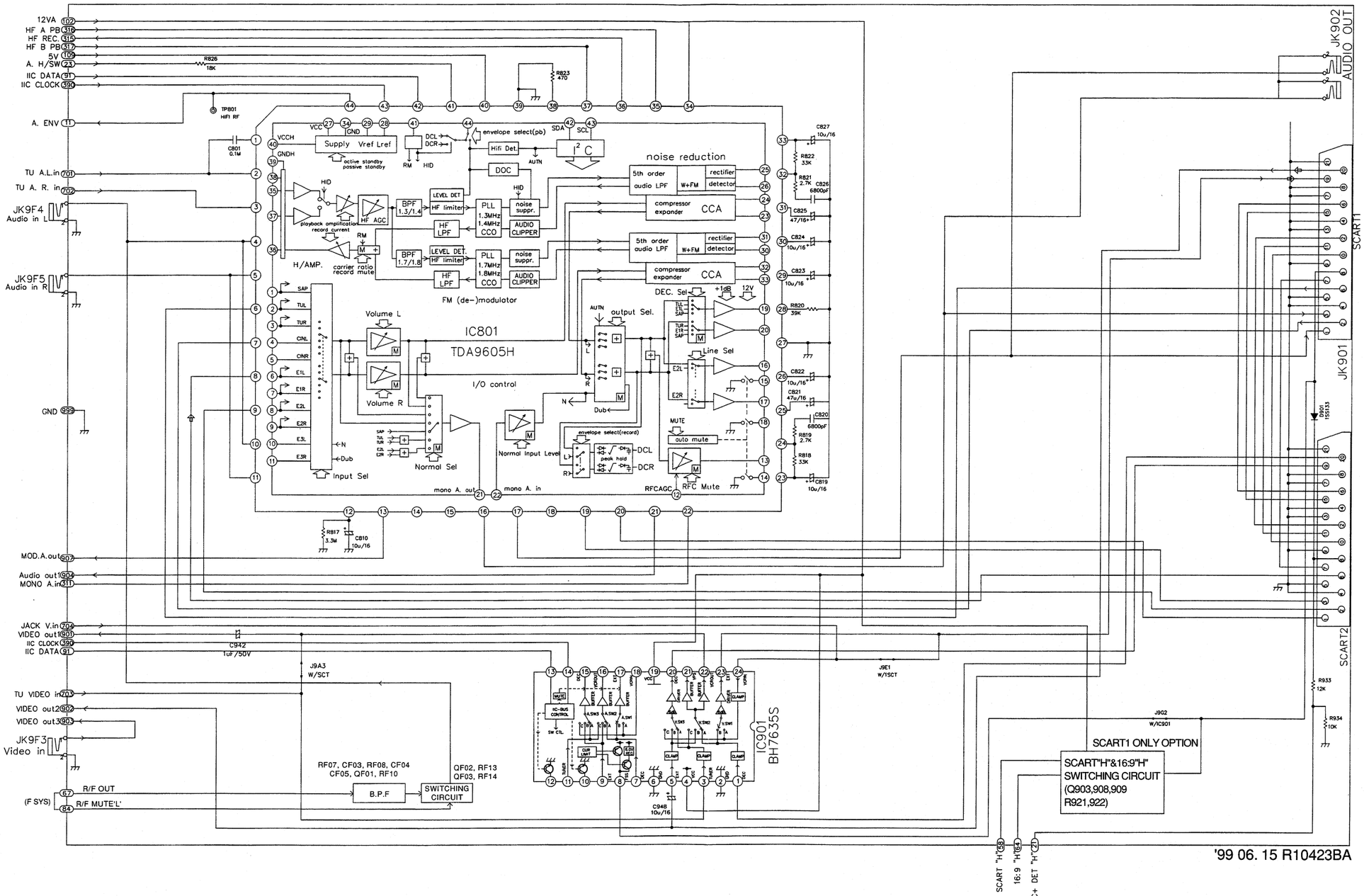
LOCATION GUIDE

C901	N10	L911	N6
C902	L6	L912	N5
C903	N9	L913	N7
C904	M8	L914	O6
C905	L10	L916	O5
C906	K9	L941	I6
C907	L5	L9F5	C7
C908	N9	Q902	L10
C909	I3	Q903	M3
C910	K10	Q906	C5
C911	O6	Q908	M3
C912	K6	Q909	L4
C913	N6	Q911	J3
C914	O5	Q912	L8
C915	L8	QF01	G10
C916	K8	QF02	G10
C917	J3	QF03	H9
C918	N5	QF04	H9
C919	C3	R901	M5
C920	H3	R902	N10
C921	O5	R903	M9
C922	P5	R904	M9
C923	N8	R905	M9
C924	N5	R906	M8
C925	K10	R911	M5
C941	H5	R912	M7
C942	C6	R913	N6
C943	F5	R914	M5
C944	F5	R915	N6
C945	F5	R916	M5
C946	E3	R917	J4
C947	F3	R918	J3
C948	G3	R919	J4
C949	G4	R921	M4
C950	H4	R922	N3
C951	I5	R931	K10
C952	H4	R932	K10
C953	F5	R933	P3
C955	F5	R934	P3
C956	C5	R936	L9
C957	C5	R941	K8
C958	H4	R942	K8
C998	O8	R943	B5
C999	O9	R946	L7
C9F2	C7	R947	I5
C9F3	C3	R948	I5
C9F5	C7	R949	E5
CF01	C10	R950	E5
CF02	D10	R9F1	C7
CF03	E10	R9F2	D7
CF04	F10	R9F3	C3
CF05	F10	RF01	C11
CF06	F9	RF02	C10
CF07	H10	RF03	C10
D901	P8	RF04	D10
D902	P9	RF05	D10
D903	B5	RF06	D10
D904	C5	RF07	E10
IC901	E4	RF08	E10
J9A1	I6	RF09	F10
J9A2	I5	RF10	G9
J9A3	E6	RF11	E9
J9A4	E6	RF12	F9
J9C1	D3	RF13	H9
J9C2	D7	RF14	G8
J9E1	F6	ZD901	M10
J9S3	L9	ZD902	M10
JK901	Q9	ZD903	N10
JK9F3	A3	ZD904	N10
JK9F5	A7	ZD9F1	B3
L901	N9	ZD9F2	B3
L902	N9	ZD9F5	B7
L903	N10	ZD9F6	B7
L904	N9		
L905	P11		
L906	N8		
L907	P7		

★IC901 Voltage Sheet

PB	3.6	4.4	4.2	0.9	5.1	0.0	0.0	0.7	0.6	0.7	11.9	3.9
REC	1.9	4.4	4.1	0.9	5.0	0.0	4.2	4.3	4.2	4.3	12.0	3.9
					20					15		
					IC901(BH7635S)							
					5					10		
PB	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0
REC	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.9	3.9	0.0

5. Hi-Fi, SCART Block Diagram (VS-J701/718EO-D,EO-DN)



5. Hi-Fi, SCART Circuit Diagram (VS-J701/718EO-D,EO-DN)

*** IC901 Voltage Sheet**

PB	3.6	4.4	4.2	0.9	5.1	0.0	0.0	0.7	0.6	0.7	11.9	3.9
REC	1.9	4.4	4.1	0.9	5.0	0.0	4.2	4.3	4.2	4.3	12.0	3.9
					20					15		
					IC901(BH7635S)							
					5					10		
PB	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0
REC	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.9	3.9	0.0

*** IC801 Voltage Sheet**

PB	3.6	4.4	4.2	0.9	5.1	0.0	0.0	0.7	0.6	0.7	11.9	3.9	3.9	3.9	0.8	3.9	3.9	0.0	0.8	3.9	3.9	3.9
REC	1.9	4.4	4.1	0.9	5.0	0.0	4.2	4.3	4.2	4.3	12.0	3.9	3.9	3.9	0.8	3.9	3.9	0.0	0.8	3.9	3.9	3.9
							40					35				30				25		
							IC801(TDA9605H)															
							5					10				15				20		
PB	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.8	0.0	3.9	0.0	0.0	6.0	6.0	0.0	6.0	6.0	4.5	3.8	
REC	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.9	3.9	0.0	3.8	0.0	0.0	6.0	6.0	0.0	6.0	6.1	4.6	3.8	

IC801 42, 43 Pins are dfective.
All Audio is not appear.

IC901 is dfective.
Video Signal is not Switching.

★WITHOUT

NOMAL AUDIO
PB AUDIO(Hi-Fi)
REC

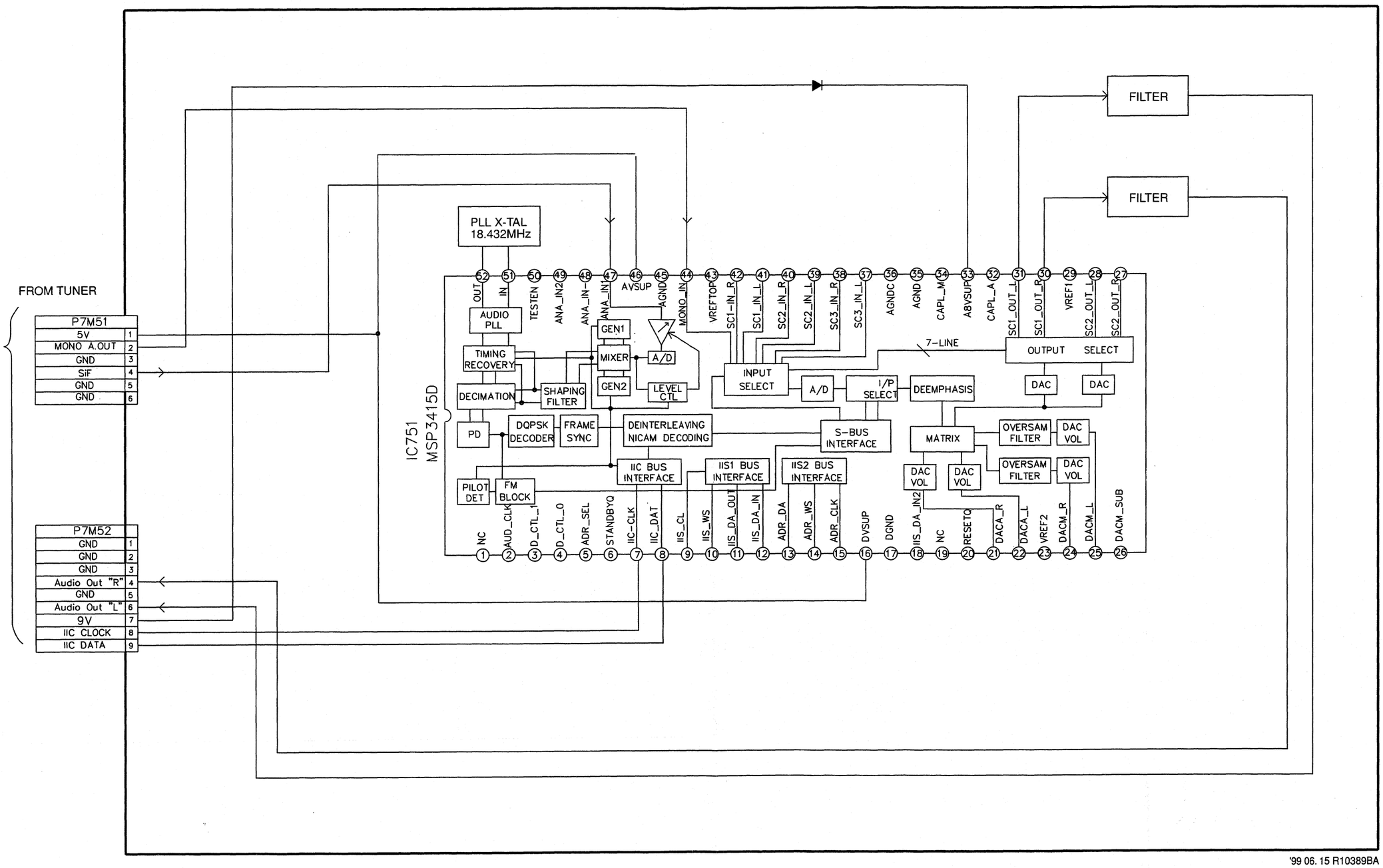
LOCATION GUIDE

C801	D10	L903	Q10
C804	D6	L904	N8
C805	C8	L905	Q10
C806	D8	L906	N7
C807	D8	L907	P7
C808	D7	L908	P10
C809	D7	L911	N5
C810	E5	L912	N4
C811	F5	L913	Q6
C813	C5	L914	N5
C814	G5	L916	N4
C815	H6	L924	P11
C816	H6	L926	P11
C817	I6	L941	K5
C818	I6	L9F4	B6
C819	J6	L9F5	B8
C820	K7	Q903	O3
C821	J7	Q908	M3
C822	J7	Q909	N3
C823	J8	QF01	F3
C824	J9	QF02	G3
C825	J9	QF03	G3
C826	K10	R817	E6
C827	K10	R818	J6
C828	I11	R819	J7
C829	J11	R820	J8
C830	H11	R821	J10
C831	G11	R822	J10
C832	G11	R823	H11
C833	G11	R824	E11
C834	H11	R825	E11
C835	C10	R826	B11
C850	B10	R827	B11
C901	N9	R828	C10
C902	M4	R829	E5
C903	N8	R830	J8
C904	N7	R901	M4
C905	O7	R902	N9
C906	N7	R905	L8
C908	N8	R906	L8
C911	O4	R911	N4
C912	M4	R912	O6
C913	O5	R915	N5
C914	O4	R916	N4
C915	O11	R921	N3
C916	O10	R922	O3
C918	O4	R925	O11
C923	P10	R926	O11
C924	P11	R933	Q4
C941	J4	R934	Q3
C942	D4	R947	J4
C948	I2	R948	J4
C949	I2	R949	G4
C950	J2	R950	G4
C951	K3	R9F3	B2
C952	K3	RF01	B4
C953	K3	RF02	C4
C954	L3	RF03	C3
C955	C5	RF04	C3
C9F1	B6	RF05	D4
C9F2	B8	RF06	D3
C9F3	C2	RF07	D3
C9F4	C6	RF08	D3
C9F5	C8	RF09	E3
CF01	C4	RF10	F3
CF02	C3	RF11	D3
CF03	D3	RF12	E3
CF04	E3	RF13	F3
CF05	E3	RF14	F2
CF06	E2	TP801	D10
CF07	F4	ZD801	G11
D901	Q7	ZD802	I11
IC801	F8	ZD803	H11
IC901	J3	ZD804	I11
J9A3	H4	ZD806	H11
J9E1	K4	ZD807	I11
J9G2	N3	ZD808	D10
JK901	Q8	ZD901	N9
JK902	O11	ZD902	N9
JK9F3	A3	ZD903	O9
JK9F4	A7	ZD904	O9
JK9F5	A9	ZD9F1	B2
L801	I11	ZD9F2	B2
L802	F11	ZD9F3	B6
L901	N8	ZD9F4	B6
L902	N8	ZD9F5	B8
		ZD9F6	B8

'99 06.15 R10423A
(SCART Hi-Fi)

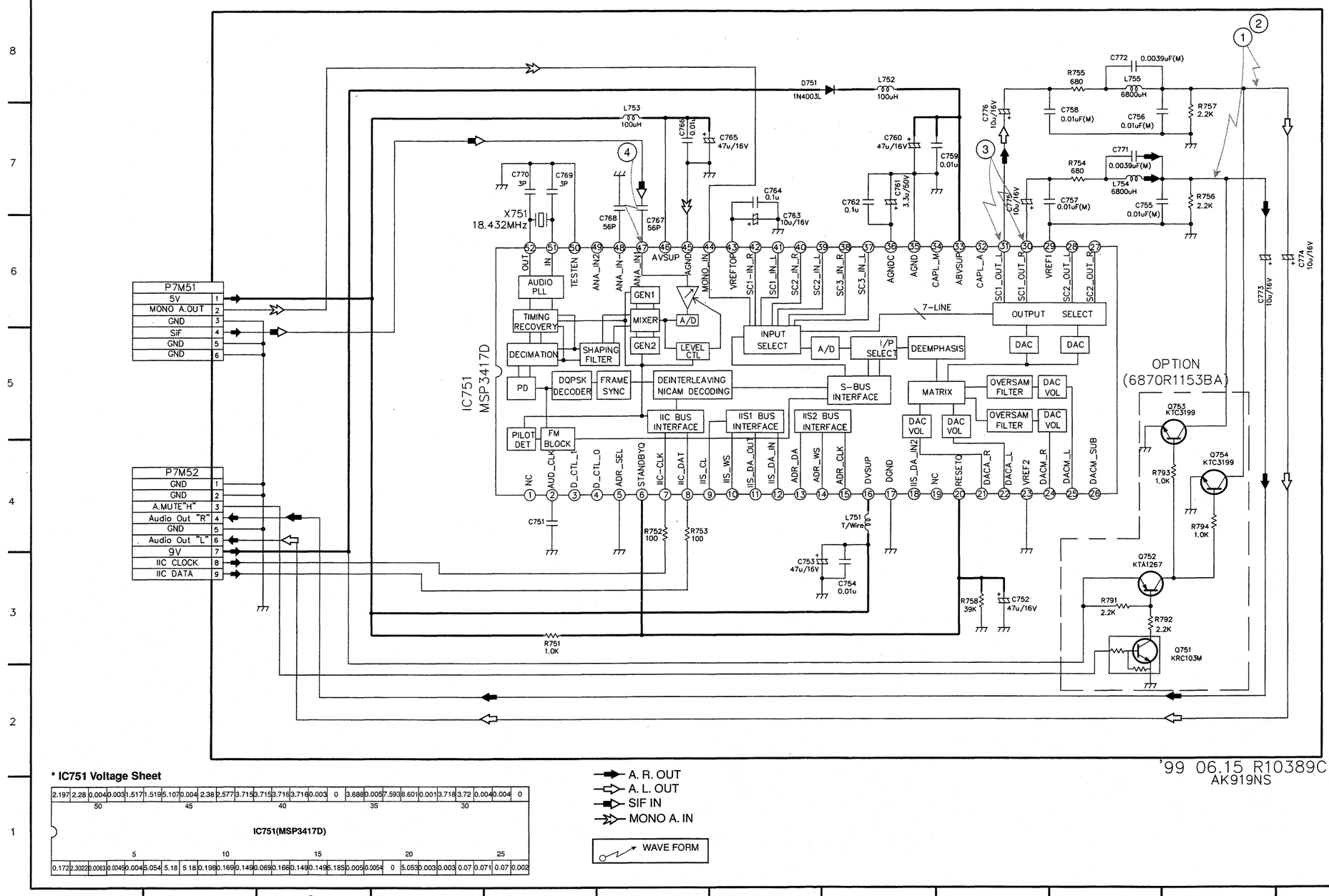
VIDE-V24601 / Druck15

6. NICAM, A2 Block Diagram (VS-J701/718EO-D, EO-DN)



'99 06. 15 R10389BA

6. NICAM, A2 Circuit Diagram (VS-J701/718EO-D,EO-DN)



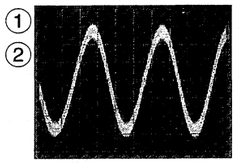
LOCATION GUIDE

C751	E4
C752	I3
C753	G3
C754	H3
C755	J7
C756	J7
C757	J7
C758	J7
C759	I7
C760	H7
C761	H7
C762	H7
C763	G6
C764	G7
C765	G7
C766	F7
C767	F6
C768	F6
C769	E7
C770	E7
C771	J7
C772	J8
C773	K6
C774	L6
C775	I7
C776	I7
D751	G8
IC751	D5
L751	H4
L752	H8
L753	F7
L754	J7
L755	J8
P7M51	B6
P7M52	B4
Q751	K3
Q752	J3
Q753	K5
Q754	K4
R751	E3
R752	F4
R753	F4
R754	J7
R755	J8
R756	K7
R757	K7
R758	I3
R791	J3
R792	J3
R793	J4
R794	K4
X751	E6

*** IC751 Voltage Sheet**

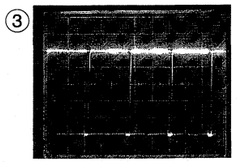
2.197	2.28	0.004	0.003	1.517	1.519	5.107	0.004	2.38	2.577	3.715	3.715	3.716	3.716	0.003	0	3.688	0.005	7.593	8.601	0.001	3.718	3.72	0.004	0.004	0	
		50					45					40					35					30					
IC751(MSP3417D)																										
		5					10					15					20					25					
0.172	2.302	2.005	3	0.004	5	0.004	5.054	5.18	5.18	0.198	0.169	0.149	0.069	0.166	0.149	0.149	5.185	0.005	0.005	4	0	5.053	0.003	0.003	0.07	0.071	0.07	0.002

*** NICAM Oscilloscope Waveform**



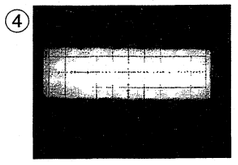
① ②

IC751 Pin (IF Signal)



③

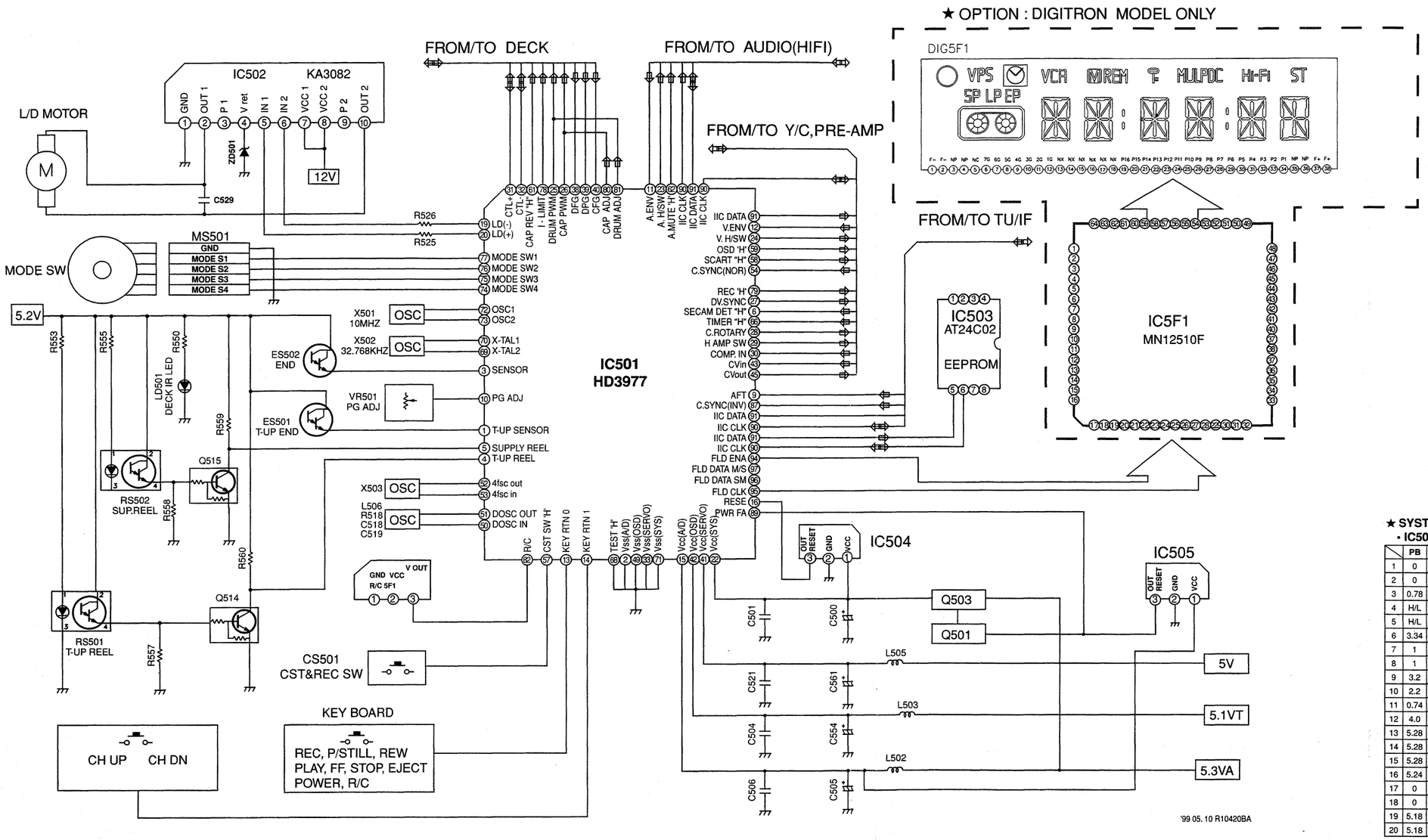
IC751 Pin 30, 31



④

IC751 47 Pin (SIF Signal)

7. System Block Diagram



★ IC502 Voltage Sheet

PB	0.4	0.8	12.19	12.19	2.16
REC	0.4	0.8	12.19	12.19	2.16

10 IC502 1 5

PB	0	0.4	0.8	0.28	2.16
REC	0	0.4	0.8	0.28	2.16

★ IC503 Voltage Sheet

PB	5.34	0.00	4.60	4.60
REC	5.34	0.00	5.21	5.21

5 IC503 1

PB	0.00	0.00	0.00	0.00
REC	0.00	0.00	0.00	0.00

★ System IC Voltage Sheet

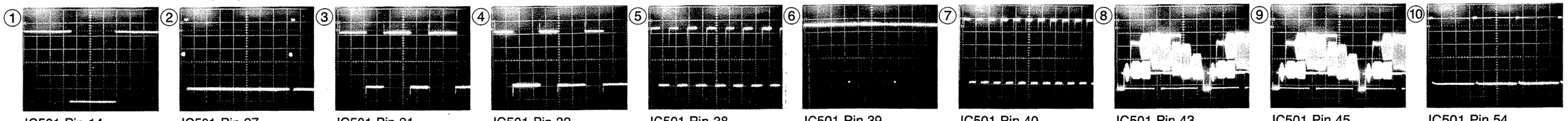
	Emitter		Collector		Base	
	PB	REC	PB	REC	PB	REC
Q514	0	0	H/L	H/L	H/L	H/L
Q515	0	0	H/L	H/L	H/L	H/L
Q506	0	0	0.7	0.7	0.4	0.4
Q503	5.32	5.32	5.25	5.24	4.43	4.43
Q501	0	0	0	0	0.75	0.75

★ SYSTEM IC Voltage Sheet

• IC501(HD3977)

	PB	REC		PB	REC		PB	REC		PB	REC
1	0	0	21	5.24	5.24	41	5.24	5.24	61	0	0	81	2.55	2.55
2	0	0	22	5.24	5.24	42	4.99	4.99	62	0	0	82	5.07	5.07
3	0.78	0.79	23	H/L	H/L	43	2.41	2.37	63	0	0	83	0	0
4	H/L	H/L	24	H/L	H/L	44	1.36	1.36	64	5.21	5.21	84	0	0
5	H/L	H/L	25	2.81	2.81	45	2.43	2.43	65	5.21	5.21	85	0	0
6	3.34	3.3	26	2.73	2.73	46	0	0	66	0	0	86	0	0
7	1	2	27	0	0	47	2.01	2.01	67	4.58	4.58	87	4.7	4.7
8	1	2	28	H/L	H/L	48	1.41	1.41	68	0	0	88	0	0
9	3.2	1.62	29	5.15	5.15	49	0	0	69	1.45	1.45	89	4.87	4.87
10	2.2	2.2	30	4.97	4.88	50	1.32	1.32	70	0.83	0.83	90	5.08	5.08
11	0.74	0	31	2.25	2.99	51	1.35	1.35	71	0	0	91	5.03	5.03
12	4.0	2.3	32	2.25	2.2	52	2.5	2.5	72	2.49	2.47	92	5.28	5.28
13	5.28	5.28	33	0	0	53	2.43	2.43	73	2.47	2.47	93	5.28	5.28
14	5.28	5.28	34	0	0	54	0.38	0.38	74	5.29	5.29	94	4.6	4.6
15	5.28	5.28	35	2.25	2.25	55	5.21	5.21	75	0	0	95	5.2	5.2
16	5.24	5.28	36	2.25	2.25	56	0	0	76	5.29	5.29	96	0	0
17	0	0	37	2.25	2.25	57	5.05	5.05	77	2.29	5.29	97	0	0
18	0	0	38	Pulse	Pulse	58	5.16	5.20	78	3.14	3.15	98	0	0
19	5.18	5.18	39	Pulse	Pulse	59	0	0	79	0	4.84	99	0	0
20	5.18	5.18	40	Pulse	Pulse	60	5.21	5.14	80	2.8	2.8	100	0	0

* IC501 Waveform Photographs



① IC501 Pin 14
1V/5mS
REC/PB modes
(V.H/SW)

② IC501 Pin 27
1V/2mS
QUE/REV modes
(D.V-SYNC)

③ IC501 Pin 31
1V/10mS
REC mode
(CTL+)

④ IC501 Pin 32
1V/10mS
REC mode
(CTL-)

⑤ IC501 Pin 38
1V/1mS
REC/PB mode
(DFG)

⑥ IC501 Pin 39
1V/10uS
REC/PB modes
(DPG)

⑦ IC501 Pin 40
1V/1mS
REC/PB modes
(CFG)

⑧ IC501 Pin 43
100mV/10uS
EE/PB modes
(V-IN)

⑨ IC501 Pin 45
500MV/10uS
EE/PB modes
(V-OUT)

⑩ IC501 Pin 54
1V/20uS
EE/PB modes
(C-SYNC)

7. System Circuit Diagram

★ OPTION DIODE TABLE

Model \ OPTION DIODE	DJ01	DJ02	DJ03	DJ04	DJ05	DJ06	DJ07	DJ08	DJ09	DJ10	DJ11	DJ12	DJ13	DJ14	DJ15	DJ16	DJ17	DJ18	DJ19	DJ20
VS-J200EO		●	●	●	●		●			●	●	●		●		●			●	
VS-J218EO			●	●	●					●									●	
VS-J418EO			●	●						●									●	
VS-J701EO-D		●	●	●		●	●			●	●			●					●	
VS-J718EO-D			●			●				●									●	
VS-J701EO-DN		●	●	●		●	●		●	●	●			●					●	
VS-J718EO-DN			●			●			●	●									●	

LD Motor will not operate.
IC502, ZD501 are defective.

Reset is defective.
Set dead.
IC504 is defective.

PB PG will not operate.
VR501 is defective.

VCR dead.
IC505 is defective.

μ-COM will not opreate.
X501, X502 are defective.

Deck will not operater.
R575, R576, R577, R578 are defective.

Auto stop occures.
RS501, RS502, Q514, Q515 are defective.

•Tape mode not Working. (Tape remaining on reel.)
•Auto Rew not working.
ES501, ES502, LD501 are defective.

μ-COM is unstable.
Q501, Q503 are defective.

WAVE FORM

IC502 KA3082
ATC24C16
IC503
IC504 KIA7031P
IC505 KIA7042P
IC501 HD3977
IC5F1
DIG5F1
KEY BOARD
Q5P1 KRC103M
Q502 KRC103M
Q5A1 KTC3199
Q5S1 KTC3199
Q502 KTC3199
Q503 KTA1273
Q501 KTC3199
ZD501 MTZ8.8C
ZD502 MTZ6.8C
ZD5F1
ZD5F2
X501 12MHz
X502 32.768KHz
X503 17.734MHz
D501 1SS133
RS501 SUB REEL
RS502 SUB REEL
LD501 DECK IR LED
ES501 T-UP END
ES502 END

0-PANNEL SW5T2.5A1
1-PANNEL SW5A2.5T1,J502
2-PANNEL SW5A2.5A1
3-PANNEL SW5T1,5A1,J501, SW502

(FROM TO TUNER)
9 R507 1.0K 9 AFT
18 18 TU SECVL'H'
63 63 TU SEC'H'
90 90 IIC CLK
91 91 IIC DATA

(FROM TO POWER)
107 107 FD(+,-16VG)
106 106 FD(-,-21VG)
66 66 TIMER'H'
113 113 5VG
105 105 -27VG
88 88 STAND BY'H'
111 111 5.3VA
103 103 12V(DRUM)
101 101 12.3VA(CAP)
110 110 5VT
60 60 POWER CTL 'H
109 109 5.1V
999 GND

(FROM/TO DECK)
PML01: LD+ 1, LD- 2
PMD01: D. CTL 1, M. GND 2, DFC 3, 12V 4, PG 5, GND 6, 5.1V 7
PMC01: GND 1, MOTOR GND 2, I-limit 3, CAP. CONTROL 4, 12.3VA 5, CFG 6, CAP. REV "H" 7, 5.1V 8
MS501: GND 1, MODE S1 2, MODE S2 3, MODE S3 4, MODE S4 5

(F/T A/V) CTL (+) 31
(F/T A/V) CTL (-) 32

(FROM/TO A/V): SEC DET'H' 6, V. ENV 12, V. H/SW 24, DV.SYNC 27, C.ROTARY 28, H.AMP SW 29, COMP IN 30, Y/C V. IN 43, OSD V. OUT 45, C SYNC 54, REC'H 79, V.OUT(VPS) 306, REC MUTE 'H' 17 (LP MONO)

(FROM/TO JACK): A.ENV 11, A. MUTE 'H' 62, IIC CLK 90, IIC DATA 91, R/F OUT 67, R/F MUTE'L' 84; (C+ DET'H' 7, A.H/SW 23, 16:9'H 64, SCART'H' 58)

(A/V LINK OPTION) TX RX 15 22

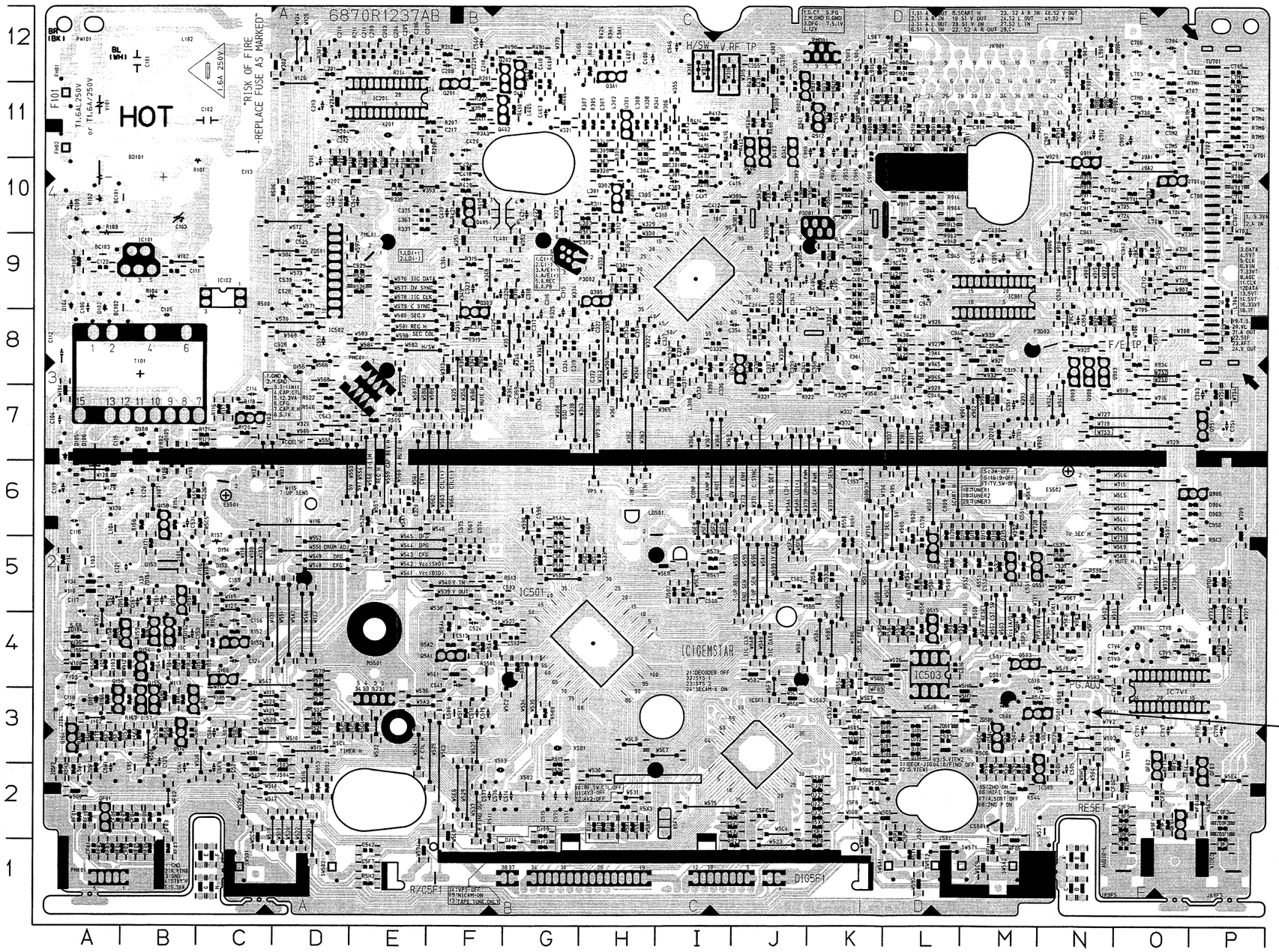
SUBVDD, Vcc(OSD), Vcc(SERVO), Vcc(AD/ETC), Vcc(SYSCON), 5.1VT 110, 5.3VA 111

'99 06.15 R10420B
AK919NS'S

VIDE-V24601 / Druck19

PRINTED CIRCUIT BOARD DIAGRAMS

1. MAIN P.C.Board (VS-J200/218/418EO)



(Solder Side)

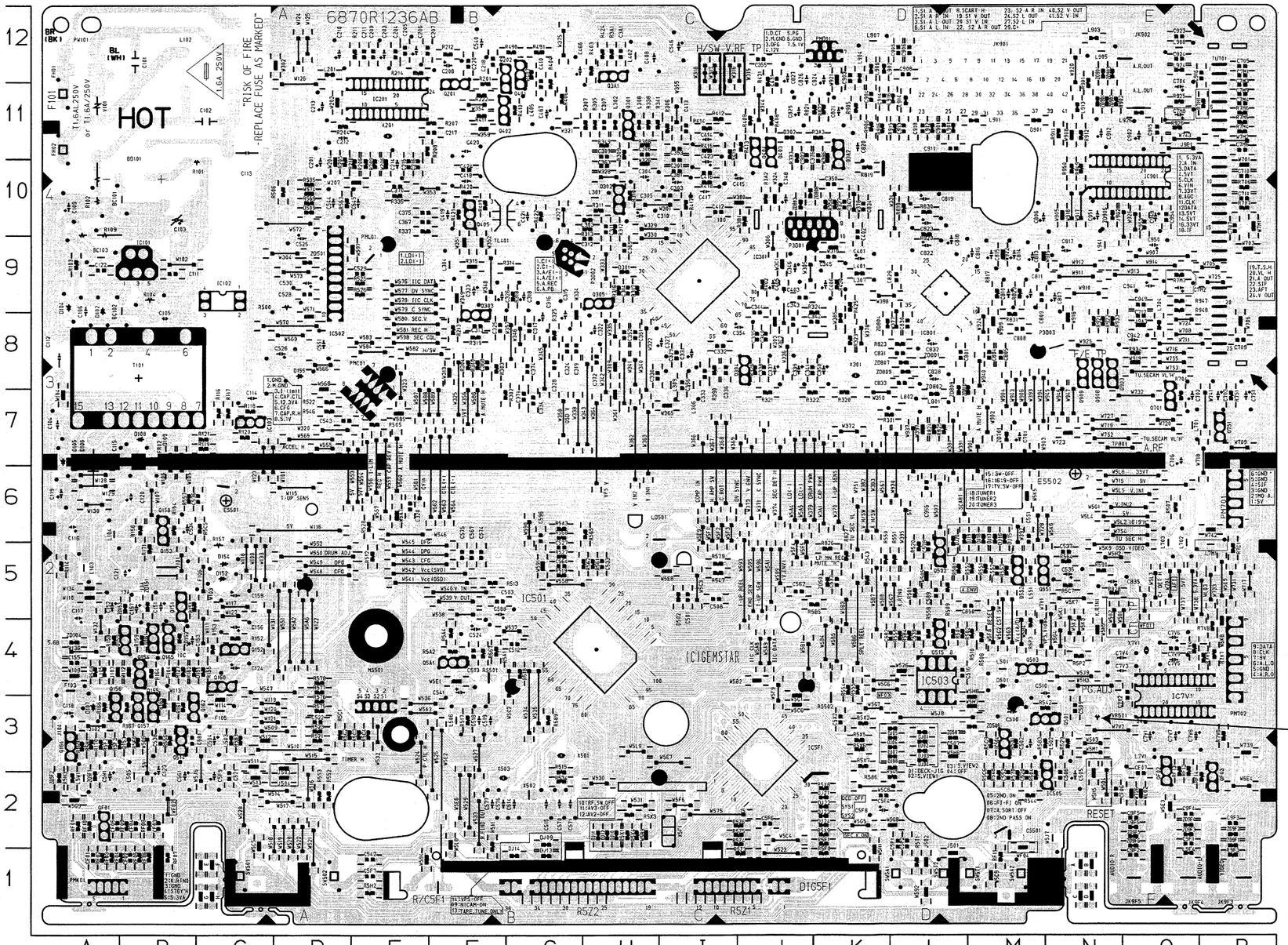
LOCATION GUIDE

BC101	B10	C334	G7	C520	M2	C7V8	P3	DJ06	L3	L5W1	A2	R102	A10	R3B1	J10	R565	H5	R911	N11
BC102	B9	C335	J8	C521	C2	C901	L11	DJ07	L3	L701	D10	R103	A9	R402	K9	R567	F4	R912	N11
BC103	A9	C336	I8	C522	D3	C902	O11	DJ08	L3	L702	D12	R104	B9	R403	H12	R569	G6	R913	L10
BD101	B10	C337	J8	C523	F4	C903	K12	DJ09	L3	L703	D12	R109	A10	R404	G11	R569	D10	R914	L10
C100	B10	C338	J8	C525	D9	C904	K11	DJ10	K5	L704	P9	R114	A5	R406	G11	R570	H2	R915	K11
C101	B12	C339	J8	C526	G8	C905	K11	DJ11	K5	L7M1	O3	R116	C7	R407	G12	R576	D3	R916	K11
C102	C11	C340	J8	C527	G5	C906	K11	DJ12	K5	L7M2	O3	R117	C7	R408	G11	R578	D3	R917	N10
C103	B10	C341	J8	C528	D9	C907	N11	DJ13	G9	L901	L11	R118	C7	R409	J11	R577	D2	R918	N10
C104	A7	C342	K8	C529	E9	C908	L12	DJ14	G9	L902	K12	R119	C7	R410	G11	R578	D2	R919	N10
C105	B8	C343	J8	C530	D9	C909	L6	DJ15	M6	L903	N12	R120	C7	R411	F11	R579	I5	R921	N8
C106	A9	C344	J8	C532	K5	C910	K11	DJ16	M6	L904	K12	R121	C7	R412	I11	R581	L5	R922	N8
C109	A10	C345	J10	C533	H5	C911	M11	DJ17	M6	L905	N12	R127	B4	R413	I11	R583	H5	R931	K11
C111	B9	C346	J9	C534	B6	C912	M11	DJ18	M6	L906	K12	R151	B5	R414	I11	R586	L2	R932	K11
C112	A8	C347	K10	C535	N5	C913	L11	DJ19	L6	L907	K12	R152	C4	R415	I11	R589	G3	R933	N8
C113	C11	C349	J10	C536	G6	C914	K11	DJ20	L6	L911	L11	R153	C4	R416	I11	R599	N6	R934	O8
C114	C7	C350	K10	C537	N5	C915	K11	DJ21	K2	L912	L11	R154	B6	R417	I10	R5A1	F4	R936	K11
C115	B7	C351	H8	C538	B3	C916	K11	DJ22	K2	L913	N11	R155	C4	R418	I10	R5A2	F4	R941	J11
C116	A6	C352	H8	C539	L4	C917	N10	DJ23	K2	L914	L11	R156	B6	R419	F10	R5A3	G6	R942	K11
C117	A5	C353	I11	C540	F12	C918	L11	DJ24	K2	L916	L11	R157	C5	R420	F10	R5A4	F4	R943	P5
C118	A3	C354	J8	C541	F4	C919	M8	E5501	G6	L941	L7	R158	A4	R421	F10	R5B1	L5	R945	K11
C119	A6	C355	J12	C542	E1	C920	N8	E5502	N7	L9P5	O2	R159	B4	R422	G10	R5B3	C3	R947	N10
C120	B6	C358	K6	C543	D7	C921	L12	F103	A4	LD501	I5	R161	B3	R424	H12	R5B4	L4	R948	N10
C121	B5	C359	G7	C544	D10	C922	L11	F104	B4	M5501	E4	R162	B4	R425	L8	R5B5	K5	R949	L7
C122	A9	C363	H10	C545	E10	C923	L11	F105	C3	P3001	J10	R164	B4	R427	L8	R5C1	D3	R950	L7
C123	B3	C367	E10	C546	I10	C924	L11	F106	B5	P3002	G9	R165	B3	R428	L8	R5C2	D3	R9F1	O2
C124	C4	C368	F8	C551	D8	C925	L11	FH01	A11	P3003	M6	R166	A3	R429	L9	R5C3	E3	R9F2	O2
C151	B5	C369	H9	C552	M2	C941	N10	FH02	A11	PH001	E7	R167	B3	R430	L8	R5C4	E3	R9F3	P1
C152	A5	C370	E10	C561	B2	C942	O9	FR02	B7	PH001	J12	R169	A3	R431	L8	R5C5	E3	R9F4	A1
C153	B4	C371	I8	C562	J5	C943	M9	IC101	B9	PH901	B1	R170	A3	R450	L9	R5C6	M2	R9F5	A1
C155	A4	C372	M6	C564	G5	C944	L9	IC102	C9	PHL01	E9	R171	B5	R490	G12	R5C7	N5	R9F6	B1
C156	C4	C373	L6	C567	F5	C945	L9	IC103	C7	PW101	A12	R201	F11	R491	G12	R5C8	N3	R9F7	B1
C157	B5	C374	G6	C570	G2	C946	L8	IC201	E11	Q151	B5	R204	D11	R500	D9	R5F0	K1	R9F8	B2
C159	C5	C375	E10	C571	G2	C947	L9	IC502	D10	Q152	C4	R205	D10	R501	L4	R5F1	K2	R9F9	B2
C201	D10	C376	E10	C574	B5	C948	L9	IC503	L3	Q153	B5	R206	E10	R502	L4	R5F2	K2	R9F10	B2
C203	E12	C3A1	H12	C575	F5	C949	O9	IC504	K3	Q154	B4	R207	F11	R504	M2	R5F3	A3	R9F8	B2
C204	E12	C3B1	I10	C576	F2	C950	N8	IC505	N2	Q155	B3	R208	E11	R505	E7	R5F8	A4	R9F9	B2
C205	E12	C401	K9	C577	F2	C951	M7	IC7V1	O4	Q156	A3	R209	E10	R506	D10	R5H1	A3	R9F10	A2
C206	E12	C402	K9	C578	L5	C952	L6	IC901	M8	Q157	B3	R210	E10	R507	O6	R5K2	E1	R9F11	M1
C207	E12	C403	K9	C581	B3	C953	M9	J101	B5	Q158	B4	R211	E12	R508	M6	R5K3	A2	R9F12	O2
C208	F12	C405	K5	C582	L4	C955	M9	J102	A3	Q159	B4	R212	F12	R509	L5	R5P2	N4	R9F13	O2
C209	E12	C406	J5	C588	F5	C956	P6	J103	A4	Q160	C4	R213	F8	R510	M4	R5P3	M4	R9F14	P2
C210	E12	C408	H12	C589	F5	C957	M6	J104	A4	Q161	B4	R214	E12	R511	M5	R5R1	F4	R9S01	F4
C211	E12	C409	K9	C596	G6	C958	M8	J3A1	K9	Q162	B3	R222	F11	R512	E5	R5S2	M5	R9S02	K4
C212	E12	C410	G9	C597	G2	C959	M8	J3A2	K10	Q163	A3	R301	D12	R513	E5	R5S3	M5	SW501	O1
C213	D11	C412	I10	C5F6	J2	C999	L12	J3B1	J10	Q165	B4	R302	F11	R515	G2	R5T1	L1	SW502	O9
C214	E10	C413	I11	C5F7	E1	C9F2	O1	J501	L1	Q201	F11	R303	F8	R517	F3	R5X1	H2	SW5A1	L1
C215	E10	C414	I11	C5F8	K2	C9F3	P2	J502	L1	Q202	F12	R304	F8	R518	G4	R5X2	K3	SW5A2	M1
C216	E10	C415	J10	C5F9	C2	C9F5	O2	J503	D3	Q301	H11	R305	H11	R519	G5	R5X3	H2	SW5T1	M1
C217	F11	C416	I10	C5P1	L2	CF01	A1	J504	D2	Q302	H10	R306	I11	R520	L5	R5X4	H2	SW5T2	L1
C218	F12	C417	I10	C5P2	L2	CF02	B1	J9A1	O10	Q303	F8	R307	H11	R521	D3	R5X5	K3	T101	B8
C220	F12	C418	F10	C551	M6	CF03	B2	J9A2	O10	Q304	J8	R308	H11	R522	D7	R5X6	K3	TL401	F10
C301	J10	C419	K9	C552	M6	CF04	B2	J9A3	O9	Q305	H9	R309	H11	R523	D3	R5X7	K3	TU701	P12
C302	J10	C420	F11	C5W1	A2	CF05	A2	J9A4	O9	Q401	H10	R310	H10	R524	D3	R5X8	K3	V401	A11
C303	I10	C421	G10	C562	K3	CF06	N2	J9C1	N8	Q9A2	J11	R311	H10	R526	E9	R5X9	K2	YR501	N3
C304	I10	C422	K9	C701	M7	CF07	N2	J9E1	M9	Q402	F11	R312	H10	R527	G5	R5Z3	J1	Z201	E10
C305	I10	C423	I10	C702	M10	C5501	P2	J9E1	M9	Q402	F11	R313	H10	R528	E6	R5Z4	J2	X301	K8
C306	H11	C424	F10	C703	P7	D102	A9	J9S3	K11	Q403	J11	R314	G9	R529	N3	R575	J2	X501	G3
C307	H11	C425	L9	C704	O12	D104	A7	JK901	M2	Q404	J11	R315	H9	R530	N3	R576	K3	X502	G2
C309	H11	C426	L9	C705	P12	D105	A7	JKSF3	P1	Q405	F10	R316	H9	R534	G2	R701	O10	X503	F2
C310	H10	C427	L6	C706	O12	D106	A6	JKSF5	O1	Q501	M3	R317	H9	R535	D10	R702	O10	X5F1	I2
C311	H10	C430	M9	C707	P10	D107	A3	L102	C12	Q502	L5	R318	G9	R542	M3	R704	O10	X7Y1	D2
C312	H9	C431	J12	C708	O10	D108	B7	L103	A5	Q503	M4	R319	F8	R543	L5	R705	P10	ZD104	A4
C313	F8	C4A6	G12	C709	P8	D109	B7	L104	A6	Q514	B3	R320	K7	R544	M3	R707	P10	ZD151	B5
C314	H9	C4A7	G11	C710	P10	D151	B4	L105	A4	Q515	L4	R321	J7	R545	L3	R7C1	P5	ZD152	B4
C315	G8	C500	M3	C711	P10	D152	C5	L201	D12	Q5A1	F4	R322	J7	R546	D7	R7D1	P5	ZD153	B5
C316	G8	C501	I5	C712	O9	D153	B3	L301	H10	Q551	M5	R323	K8	R547	I6	R7M1	O12	ZD501	D9
C317	G8	C502	M3	C7M1	P12	D154	C5	L302	H11	Q552	M5	R324	K8	R548	M2	R7N3	P11	ZD503	K5
C318	G9	C503	F5	C7N2	O11	D155	D8	L303	H10	Q701	O10	R325	G8	R550	K5	R7N4	P11	ZD506	M3
C319	G8	C504	G3	C7N3	P11	D301	H9	L304	F9	Q751	P7	R326	J8	R551	K5	R7N5	P11	ZD597	L3
C320	E6	C505	N2	C7N4	P11	D501	M4	L306	I8	Q902	J11	R327	K10	R552	D2	R7N6	P11	ZD5F1	A2
C322	H8	C506	N2	C7N5	O11	D502	I5	L307	K9	Q903	N8	R333	J10	R553	D2	R751	P7	ZD5F2	A2
C323	F9	C507	L3	C7N6	O11	D509	D10	L308	H11	Q906	P6	R335	E10	R554	K4	R7V1	Q4	ZD701	H7
C324	G8	C508	I5	C7N8	O11	D901	N9	L309	I8	Q908	N8	R337	E10	R555	K4	R7Y5	P4	ZD901	N11
C325	F8	C509	N3	C7N9	P11	D902	M11	L401	K8	Q909	N8	R338	H11	R556	B3	R7V6	P3	ZD902	N11
C326	F9	C510	M4	C751	P7	D903	P6	L402	H12	Q911	N10	R340	F8	R557	B6	R7Y7	P4	ZD903	N12
C327	I8	C512	G4	C7Y1	O3	D904	P6	L405	G11	Q912	K11	R341	H11	R558	L4	R7Y8	P4	ZD904	N12
C328	G8	C513	F4	C7Y2	O3	D105F1	J1	L501	M4	QF01	A2	R349	H11	R559	L4	R901	N11	ZD9F1	P2
C329	I8	C514	G2	C7Y3	N4	DJ01	L3	L502	N3	QF02	G2	R350	K10	R560	B3	R902	N11	ZD9F2	P2
C330	H8	C515	G2	C7Y4	N4	DJ02	L3	L503	C3	QF03	P2	R390	I8	R561	M5	R903	L10	ZD9F5	O2
C331	I8	C516	L4	C7Y5	O4	DJ03	L3	L505	B2	QF04	G2	R3A1	H12	R562	M5	R904	L10	ZD9F6	O2
C332	I8	C518	F3	C7Y6	O4	DJ04	L3	L506	F3	R/C5F1	E1	R3A2	J10	R563	D10	R905	K11		
C333	I8	C519	F3	C7Y7	O3	DJ05	L3	L551	M5	R101	B10	R3A3	F11	R564	M5	R906	K11		

ABBREVIATIONS
ADJ : Adjustment
PG : Pulse Generator

NOTE :
- ● Measurement Point
- □ : Adjustment Point
- Emitter : TRANSISTOR
- Collector
- Base

1. MAIN P.C.Board (VS-J701/718EO-D, EO-DN)



PG ADJ

LOCATION GUIDE

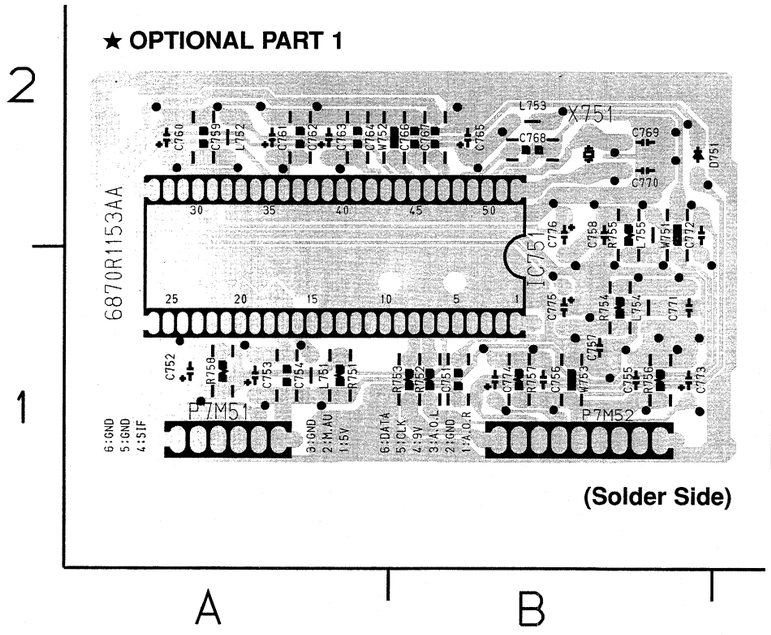
BC101	B10	C320	G8	C514	G2	C7M9	P11	CF03	B2	J9A3	G8	Q158	B6	R210	E10	R505	E7	R5C7	N5	R950	N10
BC102	B9	C329	I8	C516	G2	C7Y1	O3	CF04	E2	J9E1	O11	Q159	B5	R211	E12	R506	D10	R5C9	M3	R9F3	P1
BC103	A9	C330	H8	C516	F3	C7Y1	O3	CF05	A2	J9G2	O10	Q160	C4	R212	F12	R507	D6	R5F0	K1	RF01	A2
BD101	B10	C331	I8	C516	F3	C7Y2	O3	CF06	N2	J9K01	M12	Q161	B4	R213	F8	R508	M4	R5F1	K2	RF02	A1
C101	B10	C332	I8	C519	F3	C7Y3	N4	CF07	O2	JK902	O12	Q162	B3	R214	E12	R509	L5	R5F2	A3	RF03	A1
C101	B12	C333	I8	C520	H2	C7Y4	N4	C5501	H2	JK9F3	P1	Q164	A3	R222	F11	R510	M4	R5F3	A3	RF04	B1
C102	C11	C334	G7	C521	C2	C7Y5	O4	D102	A9	JK9F4	P1	Q165	B4	R301	K7	R511	E2	R5G8	A6	RF05	B1
C103	B10	C335	J8	C522	C2	C7Y6	O4	D104	A9	JK9F5	O1	Q201	F11	R302	F7	R512	E5	R5H1	K2	RF06	B1
C104	A7	C336	I8	C524	F4	C7Y7	O3	D105	A7	L102	C12	Q202	F12	R303	F8	R513	E5	R5H2	E1	RF07	B1
C105	B8	C337	J8	C525	D9	C7Y8	O3	D106	A6	L103	A5	Q301	H11	R304	F8	R515	C2	R5H3	A2	RF08	B2
C106	A9	C338	J8	C526	D8	C7Y9	O4	D107	A3	L104	A6	Q302	H10	R305	H11	R517	F3	R5P2	N4	RF09	B2
C109	A10	C339	J8	C527	G5	C801	L8	D108	B7	L105	A4	Q303	F8	R306	I11	R518	G4	R5P3	M4	RF10	A2
C111	B9	C340	J8	C528	D9	C804	M8	D109	B7	L201	D12	Q304	J8	R307	H11	R519	G5	R5S1	M5	RF11	M1
C112	A8	C341	J8	C529	E9	C805	M8	D151	B4	L301	H10	Q305	H9	R308	H11	R520	L5	R5S2	M5	RF12	O2
C113	A8	C342	K8	C530	D9	C806	M10	D152	C5	L302	H11	Q341	H12	R309	H11	R521	D3	R5S3	M5	RF13	O2
C114	C7	C343	J8	C532	K5	C807	N9	D153	B3	L303	H10	Q3A2	K11	R310	H10	R522	D7	R5T1	L1	RF14	P2
C115	B7	C344	J8	C533	H5	C808	M8	D154	G5	L304	F9	Q401	G12	R311	H10	R523	D3	R5X1	K2	R5501	F4
C116	A5	C345	K9	C534	B6	C809	M9	D155	D8	L306	I8	Q402	F11	R312	H10	R525	E9	R5X2	K3	R5502	K4
C117	A5	C346	J9	C535	N5	C810	M9	D301	H9	L307	K9	Q403	J11	R313	H10	R526	E9	R5X3	H2	SW501	C1
C118	A3	C347	K10	C536	C6	C813	M9	D302	H9	L308	H11	Q404	J11	R314	G9	R527	D5	R5X4	H2	SW502	D1
C119	A6	C348	J10	C537	N5	C814	M9	D501	M1	L309	I8	Q495	F10	R315	F9	R528	E8	R5X5	K3	SW5A1	L1
C120	B6	C350	K10	C538	B3	C815	M9	D502	I5	L401	K9	Q501	M3	R316	H9	R529	N3	R5X6	K3	SW5A2	M1
C121	B5	C351	H8	C539	L4	C816	M9	D503	D10	L402	H11	Q502	M3	R317	H9	R530	K3	R5X7	K3	SW5T1	D1
C122	A9	C352	H8	C540	F12	C817	N9	D901	M11	L405	G11	Q523	M4	R318	G9	R534	G2	R5X8	K2	SW5T2	L1
C123	B3	C353	I11	C541	F4	C817	N9	D1050F	J1	L501	A6	Q514	B3	R319	F8	R535	C4	R5X9	K2	T101	B8
C124	C4	C354	J9	C542	E1	C818	L9	D1051	L3	L502	M3	Q515	C3	R329	K7	R542	D9	R5Z3	J2	TL401	F10
C151	B5	C355	J12	C543	D7	C819	L10	DJ102	L3	L503	C3	Q541	F4	R321	J7	R543	K5	R5Z4	J2	TP801	N7
C152	A5	C356	I8	C544	D10	C820	K11	DJ103	L3	L504	F3	Q551	M5	R322	J7	R544	M2	R5Z5	J2	TU701	P12
C153	B4	C358	K8	C545	E10	C821	K11	DJ104	L3	L505	F3	Q552	M5	R323	K8	R545	L3	R5Z6	J2	V101	A11
C155	A4	C363	H10	C546	I12	C822	L9	DJ105	L3	L506	F3	Q701	O7	R324	K8	R546	O7	R7R4	O7	V9501	K3
C156	C5	C367	E10	C551	D8	C823	L10	DJ106	L3	L507	F3	Q731	P7	R325	G8	R547	I5	R7R5	P10	X201	K8
C157	B5	C368	F8	C552	M2	C824	K12	DJ107	L3	L701	O7	Q903	N8	R326	J8	R548	M2	R7R7	P10	X301	K8
C158	B5	C369	H9	C561	G2	C825	J11	DJ108	L3	L702	O6	Q908	N8	R327	K10	R550	K5	R7R8	P9	X501	G3
C201	B10	C370	E10	C562	J5	C826	J12	DJ109	G2	L703	O5	Q909	N8	R333	J11	R551	L5	R7M1	P11	X502	G2
C203	E12	C371	G7	C564	D5	C827	J12	DJ110	H2	L704	O8	QF01	A2	R335	E10	R552	D2	R7M3	O9	X503	F2
C204	E12	C372	H8	C567	F5	C828	L8	DJ111	H2	L705	O8	QF02	A2	R337	E10	R553	D2	R7M4	O9	X701	I2
C205	E12	C374	G8	C570	G2	C829	L9	DJ112	H2	L7V1	O3	QF03	P2	R338	H11	R554	K4	R7M5	P11	X7V1	D2
C206	E12	C375	E10	C571	G2	C830	L8	DJ113	G3	L801	L7	R/C5F1	E2	R339	H11	R555	K4	R7N6	P11	ZD104	A4
C207	E12	C376	K11	C574	G2	C831	L8	DJ114	G1	L802	L7	R001	B10	R341	H11	R556	B3	R7S1	P7	ZD152	B4
C208	E12	C3A1	H12	C575	F5	C832	L8	DJ115	M6	L901	L11	R102	A10	R343	H11	R557	B6	R7V4	O4	ZD153	B5
C209	E12	C3B1	I10	C576	F2	C833	L8	DJ116	M6	L902	K12	R103	A9	R356	K10	R558	L4	R7V5	P3	ZD501	D9
C210	D12	C401	K9	C577	F2	C834	K10	DJ117	M6	L903	N12	R104	B9	R390	I8	R559	L4	R7V6	P3	ZD502	D9
C211	E12	C402	K10	C578	L5	C835	M5	DJ118	M6	L904	K12	R105	A10	R391	H12	R560	B3	R7V7	P4	ZD503	K5
C212	E12	C403	J9	C581	L5	C836	M5	DJ119	M6	L905	M5	R106	A9	R3A2	I10	R561	B3	R7V8	P4	ZD506	M3
C213	D11	C405	J9	C582	L4	C901	L11	DJ120	L6	L906	K12	R107	B9	R3A3	K11	R562	H5	R8R7	M9	ZD507	L3
C214	E10	C406	K9	C588	F5	C902	O11	DJ121	K2	L907	K12	R108	A10	R3B1	J10	R563	D10	R8R8	L10	ZD508	L2
C215	E10	C408	H12	C589	L5	C903	K12	DJ122	K2	L908	O12	R110	C7	R402	J9	R564	M5	R8R9	K10	ZD509	N11
C216	E10	C410	G11	C596	G6	C904	K11	DJ123	K2	L911	M11	R111	C7	R403	H12	R565	M6	R8R10	L10	ZD701	H7
C217	F11	C411	J11	C5F3	K2	C905	L12	DJ124	K2	L912	O11	R112	C7	R404	H12	R566	M5	R8R11	M9	ZD702	H7
C218	F12	C413	I11	C5F6	J2	C906	L12	DJ125	K2	L913	N11	R121	C7	R405	G11	R568	G6	R8R12	K11	ZD802	L7
C219	F12	C414	I11	C5F7	E1	C907	L12	ES502	N7	L914	N11	R122	B4	R406	G11	R569	D10	R8R13	L11	ZD803	J10
C220	F12	C415	J10	C5F8	K2	C911	L11	F103	A4	L916	L11	R151	B5	R408	J11	R570	M2	R8R14	L11	ZD804	K8
C301	I10	C416	I10	C5F9	C2	C912	N11	F104	B4	L924	O12	R152	C4	R409	J11	R575	D3	R8R15	L11	ZD805	J10
C302	J11	C417	I10	C5P1	L2	C913	L11	F105	C3	L926	O11	R153	C4	R410	G11	R576	D3	R8R16	K11	ZD806	L8
C303	I10	C418	F10	C5P2	L2	C914	K11	F106	B5	L941	N9	R154	B6	R411	F11	R577	D4	R8R17	K11	ZD807	L8
C304	H10	C419	F10	C551	M5	C915	O11	FH01	A11	L9F4	O1	R155	C4	R412	I11	R578	D4	R8R18	M5	ZD808	L7
C305	I10	C420	F11	C552	M5	C916	P12	FH02	A11	L9F5	O2	R156	B6	R413	J11	R579	I5	R8R19	M9	ZD809	L8
C306	H11	C421	G10	C5A1	K2	C917	L11	FR02	B7	LD501	I5	R157	C5	R414	I11	R581	L5	R8R20	L10	ZD810	M7
C307	H11	C423	J10	C5X2	K3	C923	O12	H01	E4	M5501	E4	R158	A4	R415	I11	R583	M5	R8R21	L10	ZD901	N11
C309	H11	C424	F10	C701	H7	C924	O12	IC102	C9	P3D01	J10	R159	B4	R416	I11	R586	L2	R8R22	K11	ZD902	N11
C310	H10	C431	J12	C702	O7	C941	O9	IC103	C7	P3D02	O9	R161	B3	R417	I10	R589	D3	R8R23	L9	ZD903	N12
C311	H10	C431	J12	C703	P7	C942	O8	IC201	E11	P3D03	N8	R162	B4	R418	I10	R590	M5	R8R24	L9	ZD904	N12
C312	H9	C466	G12	C704	O11	C948	O10	IC502	D10	PM101	P6	R163	B4	R419	I10	R5A1	F4	R8R25	L7	ZD905	N10
C313	F9	C467	G11	C705	P12	C949	O9	IC503	L3	PM102	P3	R165	B3	R420	F10	R5A2	F4	R8R26	L7	ZD9F1	P2
C314	H9	C501	M3	C706	P7	C950	O9	IC504	M3	PM201	E7	R166	A3	R421	F10	R5A3	O6	R8R27	K5	ZD9F2	P2
C315	G8	C501	I5	C707	P10	C951	N10	IC505	N2	PM201	J12	R167	B3	R422	G10	R5A4	F4	R8R28	K5	ZD9F3	O2
C316	G8	C502	M3	C707	P10	C951	N10	IC7V1	O4	PM301	B9	R169	A3	R424	H12	R5B1	L5	R8R29	K5	ZD9F4	O2
C317	G8	C503	F5	C709	P8	C953	O10	IC901	O10	PM401	E9	R170	A3	R425	K9	R5B3	C3	R8R30	K5	ZD9F5	O2
C318	G9	C504	C3	C710	P10	C954	O10	IC901	O10	PM501	E9	R171	B5	R430	K9	R5B4	L4	R8R31	K5	ZD9F6	O2
C319	G8	C505	N2	C711	P10	C955	L5	J101	B5	PW101	A12	R201	F11	R431	J12	R5B5	K5	R8R32	K5		
C320	E6	C506	K9	C712	O8	C9F1	O2	J102	A3	Q151	B5	R202	F11	R432	I12	R5B6	K5	R8R33	K5		
C322	H8	C507	L3	C7M1	P12	C9F2	O1	J103	A4	Q152	C4	R204	D11	R490	G12	R5C1	D3	R8R34	O8		
C323	F9	C508	I5	C7M2	O9	C9F3	P2	J104	A3	Q153	B5	R205	D10	R491	G12	R5C2	D3	R8R35	O8		
C324	G8	C509	M3	C7M3	P11	C9F4	O2	J501	L1	Q154	B4	R206	E10	R500	D9	R5C3	E3	R8R36	O8		
C325	F8	C510	M4	C7M4	P11	C9F5	O2	J502	L1	Q155	B3	R207	F11	R501	L4	R5C4	E3	R8R37	O9		
C326	F9	C512	G4	C7M5	P11	CF01	A1	J503	D3	Q156	A3	R208	E11	R502	L4	R5C5	C6	R8R38	O9		
C327	I8	C513	F4	C7M8	O11	CF02	B1	J504	O2	Q157	B3	R209	E10	R504	M2	R5C6	M2	R8R39	N10		

ABBREVIATIONS
ADJ : Adjustment
PG : Pulse Generator

NOTE :
- ● Measurement Point
- □ : Adjustment Point
- Emitter : TRANSISTOR
- Collector
- Base

2. NICAM P.C.Board (VS-J701/718EO-D,EO-DN)

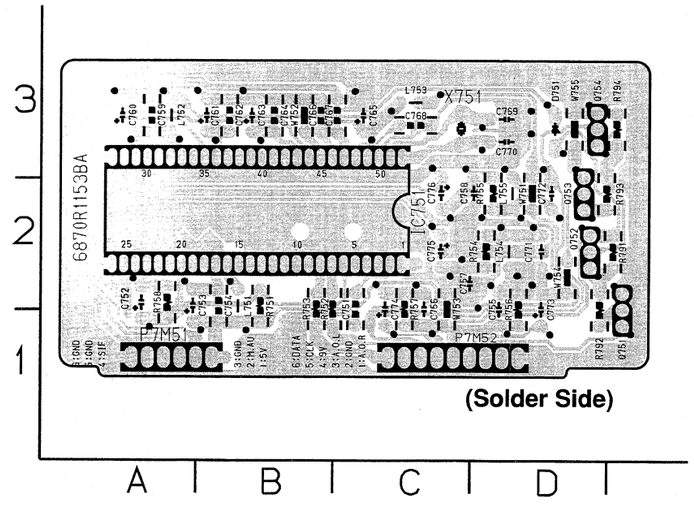
★ OPTIONAL PART 1



LOCATION GUIDE

C751	B1	C774	B1
C752	A1	C775	B1
C753	A1	C776	B2
C754	A1	D751	C2
C755	B1	IC751	B1
C756	B1	L751	A1
C757	B1	L752	A2
C758	B2	L753	B2
C759	A2	L754	B1
C760	A2	L755	B2
C761	A2	P7M51	A1
C762	A2	P7M52	B1
C763	A2	R751	A1
C764	A2	R752	B1
C765	B2	R753	B1
C766	B2	R754	B1
C767	B2	R755	B2
C768	B2	R756	B1
C769	B2	R757	B1
C770	B2	R758	A1
C771	B1	X751	B2
C772	C2		
C773	B1		

★ OPTIONAL PART 2

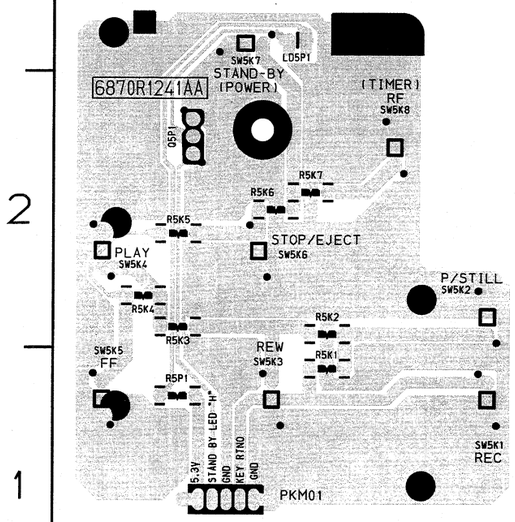


LOCATION GUIDE

C751	C2	D751	D3
C752	A2	IC751	C2
C753	A2	L751	B2
C754	B2	L752	A3
C755	D2	L753	C3
C756	C2	L754	D2
C757	C2	L755	D2
C758	D2	P7M51	B1
C759	A3	P7M52	D1
C760	A3	Q751	E2
C761	B3	Q752	D2
C762	B3	Q753	D2
C763	B3	Q754	D3
C764	B3	R751	B2
C765	C3	R752	B2
C766	B3	R753	B2
C767	C3	R754	D2
C768	C3	R755	D2
C769	D3	R756	D2
C770	D3	R757	C2
C771	D2	R758	A2
C772	D2	R791	E2
C773	D2	R792	D2
C774	C2	R793	D2
C775	C2	R794	E3
C776	C2	X751	C3

3. KEY P.C.Board

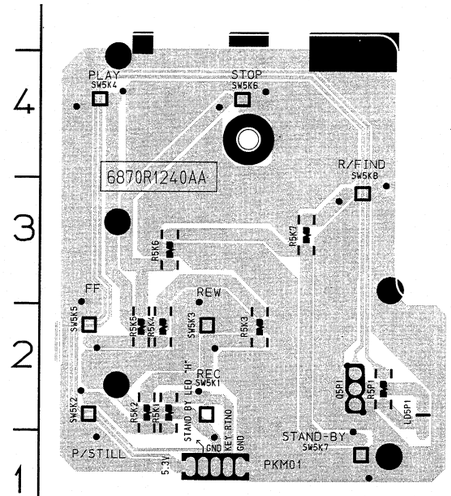
★ VS-J718EO-D/718EO-DN/VS-J218EO/418EO



LOCATION GUIDE

LD5P1	A3
PKM01	A1
Q5P1	A2
R5K1	B1
R5K2	B2
R5K3	A2
R5K4	A2
R5K5	A2
R5K6	A2
R5K7	A2
R5P1	A1
SW5K1	B1
SW5K2	B2
SW5K3	A1
SW5K4	A2
SW5K5	A1
SW5K6	A2
SW5K7	A3
SW5K8	B2

★ VS-J701EO-D/701EO-DN/VS-J200EO



LOCATION GUIDE

LD5P1	C2
PKM01	B1
Q5P1	C2
R5K1	A2
R5K2	A2
R5K3	B2
R5K4	A2
R5K5	A2
R5K6	A3
R5K7	B3
R5P1	C2
SW5K1	B2
SW5K2	A2
SW5K3	B2
SW5K4	A4
SW5K5	A2
SW5K6	B4
SW5K7	C1
SW5K8	C3

SECTION 4 MECHANISM

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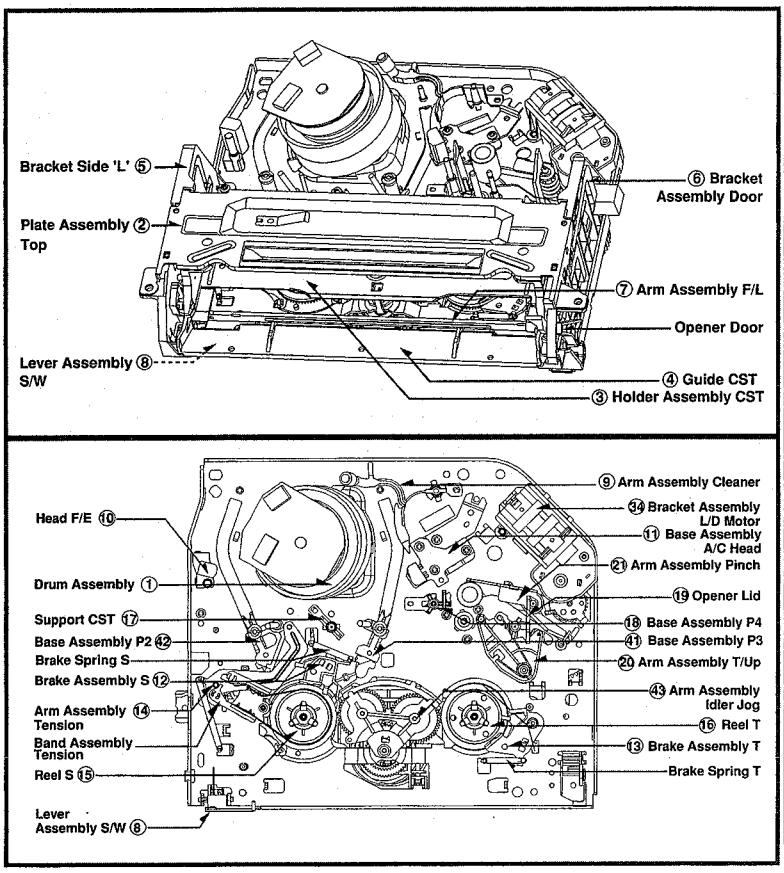
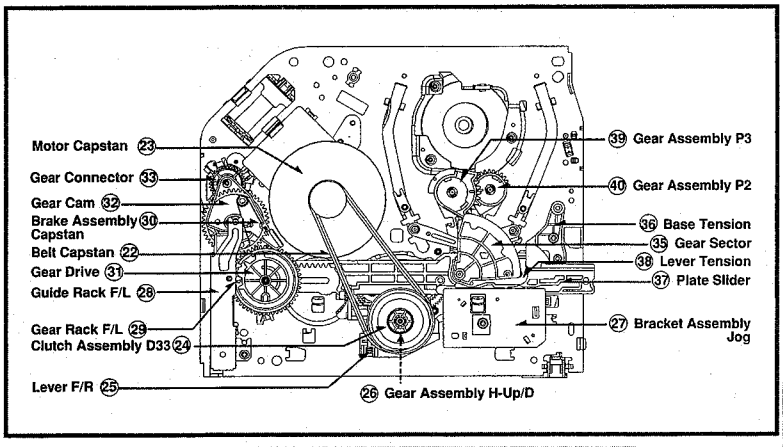
DECK MECHANISM PARTS LOCATIONS

• Top View



Starting No. \ Procedure		Part	Fixing Type	Figure
	1	Drum Assembly	3 Screws , Cap FPC	A-1
	2	Plate Assembly Top	Two Hooks	A-2
2	3	Holder Assembly CST	Chassis Hole	A-2
	4	Guide CST	2 Hooks	A-2
2,3,4	5	Bracket Side (L)	1 Screw	A-2
2,3,4	6	Bracket Assembly Door	1 Screw	A-2
2,3,4,5,6	7	Arm Assembly F/L	Chassis Hole	A-2
2,3,4,5	8	Lever Assembly S/W	Chassis Hole	A-2
	9	Arm Assembly Cleaner	Chassis Embossing	A-3
	10	Head F/E	2 Hooks	A-3
	11	Base Assembly A/C Head	1 Screw	A-3
	12	Brake Assembly S	Chassis Hole	A-4
2,3	13	Brake Assembly T	Chassis Hole	A-4
2,3,12,	14	Arm Assembly Tension	Chassis Hole	A-4
2,3,12,14	15	Reel S	Chassis Shaft	A-4
2,3,13	16	Reel T	Chassis Shaft	A-4
	17	Support CST	Chassis Embossing	A-5
	18	Base Assembly P4	Chassis Embossing	A-5
	19	Opener Lid	Chassis Embossing	A-5
19	20	Arm Assembly T/Up	Chassis Embossing	A-5
19	21	Arm Assembly Pinch	Chassis Shaft	A-5

• Bottom View



Starting No. \ Procedure		Part	Fixing Type	Figure
	22	Belt Capstan		A-6
22	23	Motor Capstan	3 Screws	A-6
	24	Clutch Assembly D33	1 Washer	A-6
22,24	25	Lever F/R	1 Hook	A-6
22,24	26	Gear Assembly H-Up/D	2 Washers	A-6
	27	Bracket Assembly Jog	1 Screw	A-7
	28	Guide Rack F/L	1Screw	A-7
28	29	Gear Rack F/L		A-7
28, 29	30	Brake Assembly Capstan	Chassis Shaft	A-7
28, 29	31	Gear Drive	1 Washer	A-8
28, 29, 30	32	Gear Cam	Chassis Shaft	A-8
28, 29, 30, 31	33	Gear Connector	Chassis Shaft	A-8
	34	Bracket Assembly L/D Motor	3 Hooks	A-8
	35	Gear Sector	3 Washers	A-9
	36	BaseTension	1 Screw	A-9
22, 24, 25, 27	37	Plate Slider	Chassis Shaft	A-9
28, 29, 31, 35				
36				
22, 24, 25, 27				
28, 29, 31, 35	38	Lever Tension	Chassis Hole	A-9
36				
35	39	Gear Assembly P3	2 Hooks	A-10
35, 39	40	Gear Assembly P2	2 Hooks	A-10
35, 39, 40	41	Base Assembly P3	Chassis Hole	A-10
35, 39, 40, 41	42	Base Assembly P2	Chassis Hole	A-10
1, 2	43	Arm Assembly Idler Jog	1 Hook	A-10

NOTE : When reassembly perform the procedure in the reverse order.

1) When reassembling, confirm Mechanism and Mode Switch Alignment Position (Pefer to Page 4-14)
2) When disassembling, the Parts for Starting No. Should be removed first.

DECK MECHANISM DISASSEMBLY

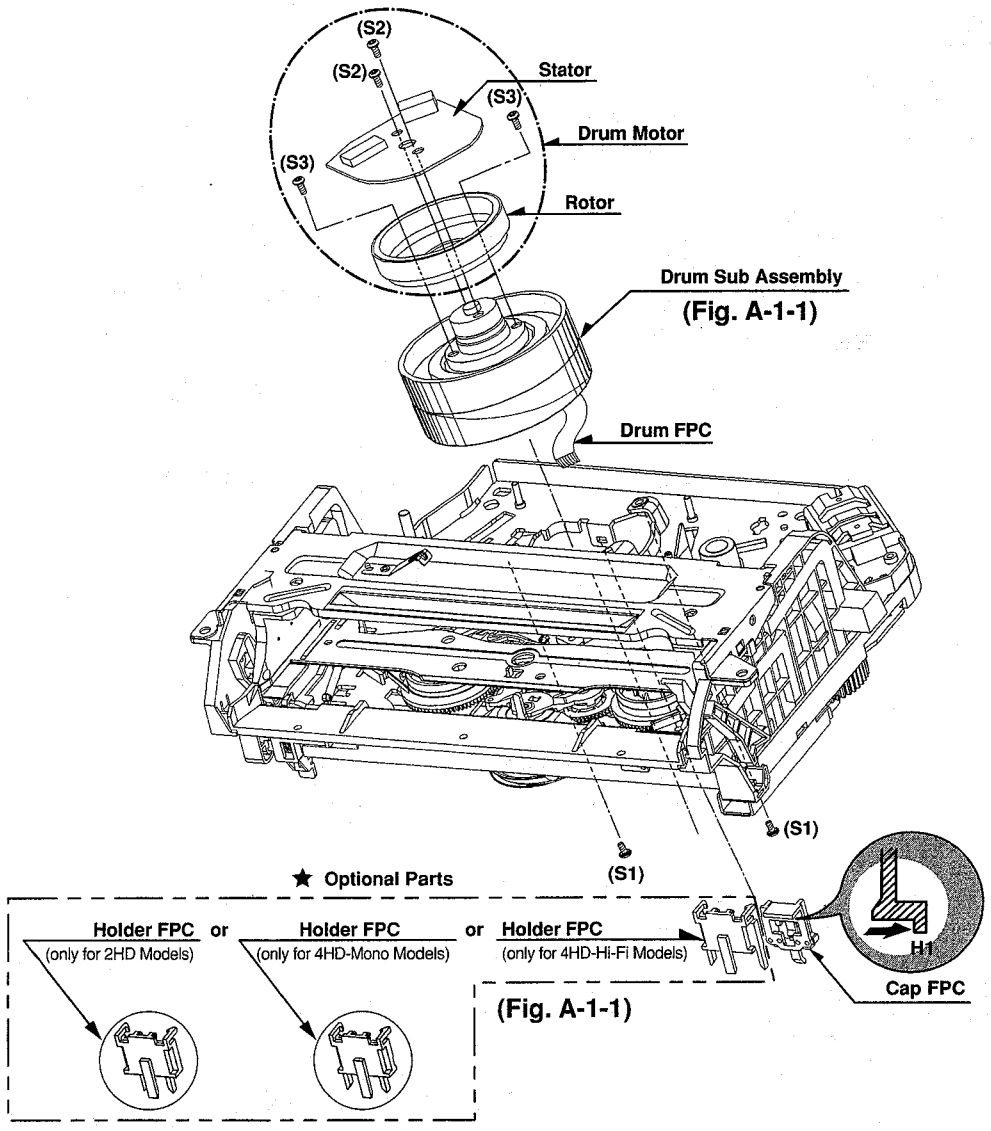


Fig. A-1

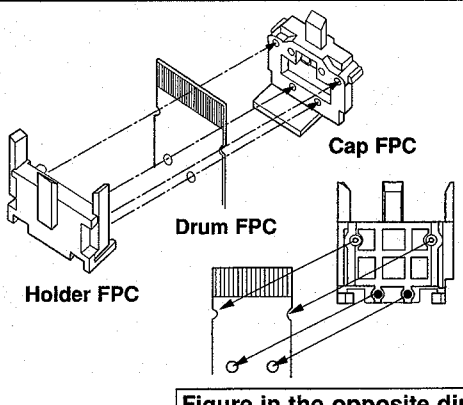
1. Drum Assembly (Fig. A-1-1)

1) Unhook the (H1) on the back side of the Chassis and separate the Cap FPC.
2) Remove three Screws (S1) and lift up the Drum Assembly.
3) Remove two Screws (S2) and Separate the Stator of Drum Motor.
4) Remove two Screws (S3) and Separate the Rotor of Drum Motor from the Drum Sub Assembly.

NOTE

(1) When reassembling Cap FPC, two Holes of Drum FPC are inserted to the two Bosses of Holder FPC correctly. (Refer to Fig. B-1)

(Fig. B-1)



DECK MECHANISM DISASSEMBLY

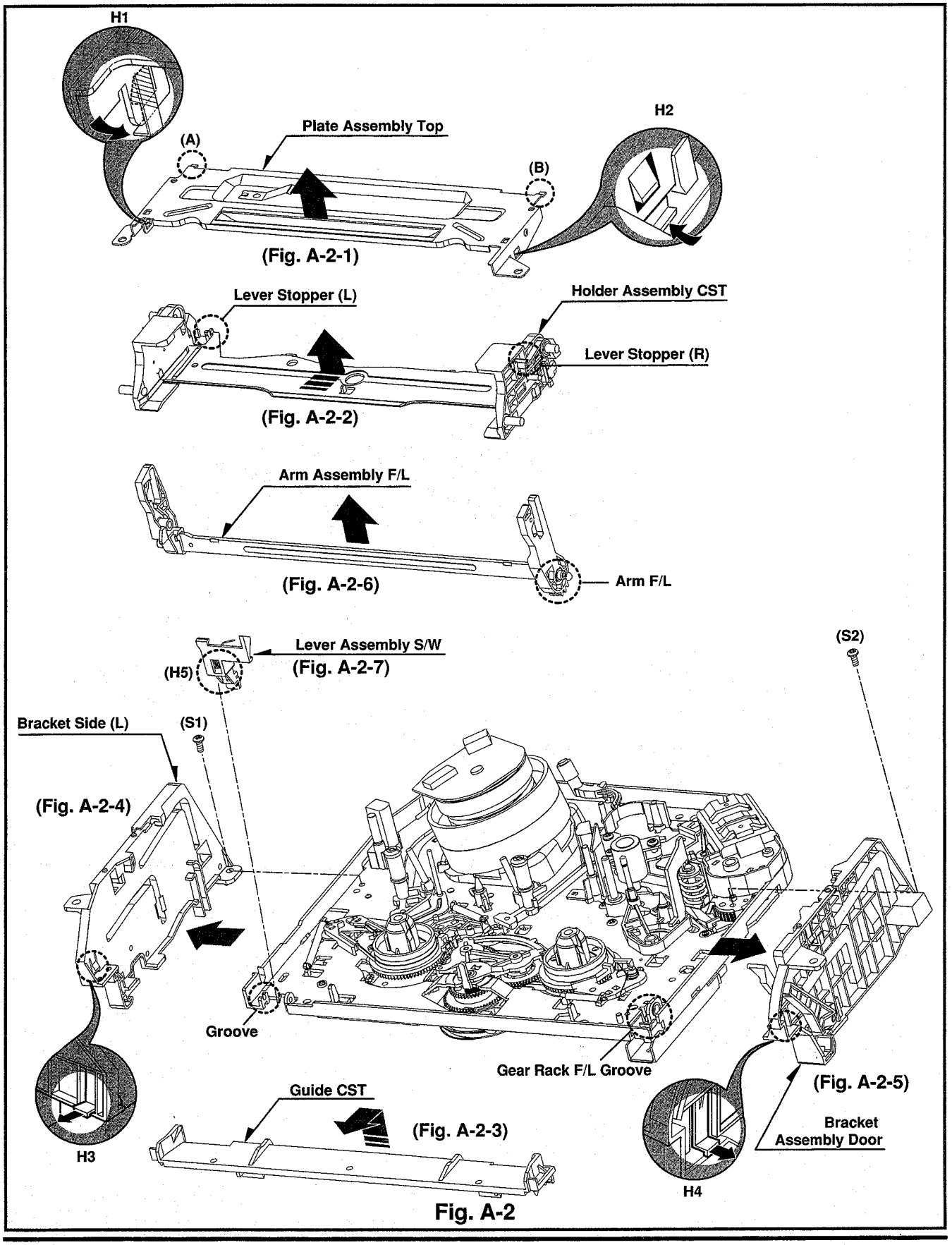


Fig. A-2

DECK MECHANISM DISASSEMBLY

2. Plate Assembly Top (Fig. A-2-1)

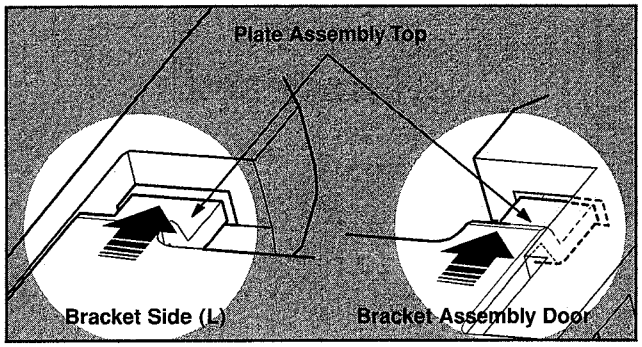
1) Unhook the (H1) and separate the Left Side.
2) Unhook the (H2) and lift up the Plate Assembly Top.

NOTE

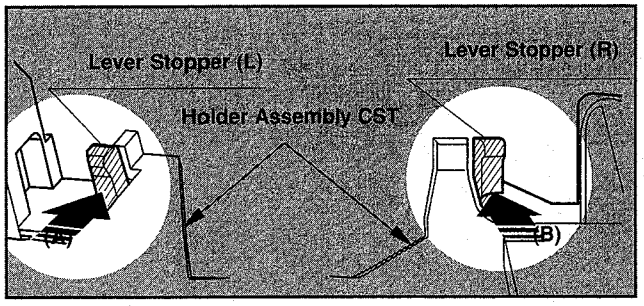
(1) When reassembling, confirm (A),(B) Part of the Plate Assembly Top is inserted to the (L),(R) Grooves of the Bracket Side(L) and Bracket Assembly Door.

3. Holder Assembly CST (Fig.A-2-2)

1) Push the Lever Stopper(L),(R) in the direction of the arrows (A), (B), and move the Holder Assembly CST.

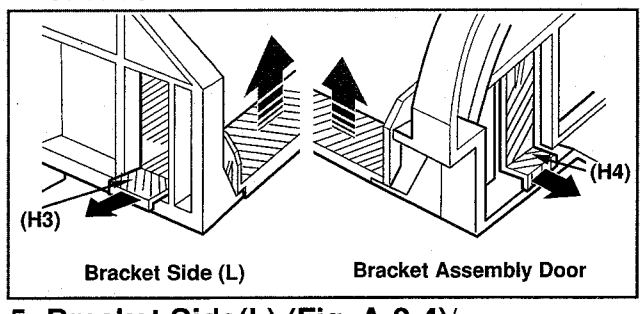


2) Push the Bracket Assembly Door to the right and lift up the Holder Assembly CST along the Guide Groove of the Bracket Assembly Door.



4. Guide CST (Fig.A-2-3)

1) Push two Hooks(H3),(H4) in the direction of the arrow and separate the left side.
2) Unhook (H5),(H6) as above No.1) and disassemble the Guide CST in the direction of the arrow.



5. Bracket Side(L) (Fig. A-2-4)/ Bracket Assembly Door (Fig.A-2-5)

1) Remove the Screw (S1) and disassemble the Bracket Side(L) in the front.
2) Remove the Screw (S2) and disassemble the Bracket Assembly Door in the front.

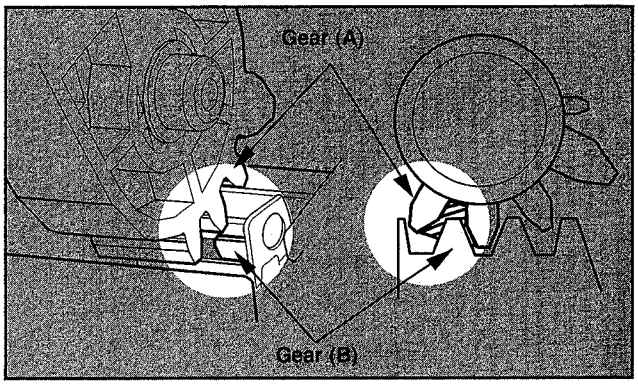
6. Arm Assembly F/L (Fig. A-2-6)

1) Push the Arm Assembly F/L to the left and lift up it.

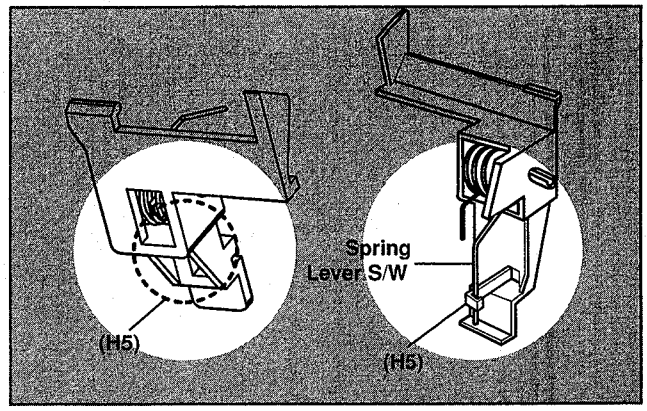
NOTE

(1) When reassembling, confirm that the Gear(A) of the Arm F/L and the Gear(B) of the Gear Rack F/L are assembled as below.

7. Lever Assembly S/W (Fig. A-2-7)

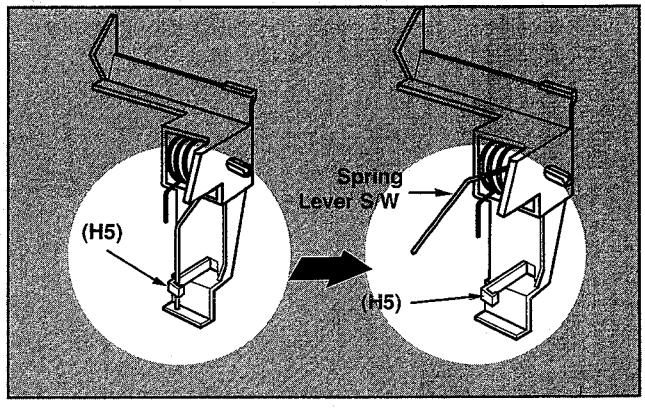


1) Hook the Spring Lever S/W on (H5).
2) Lift up the left side of the Lever S/W from the Groove(A) of the Chassis.



NOTE

(1) Place the Spring Lever S/W of the above (No.1) as original position.



DECK MECHANISM DISASSEMBLY

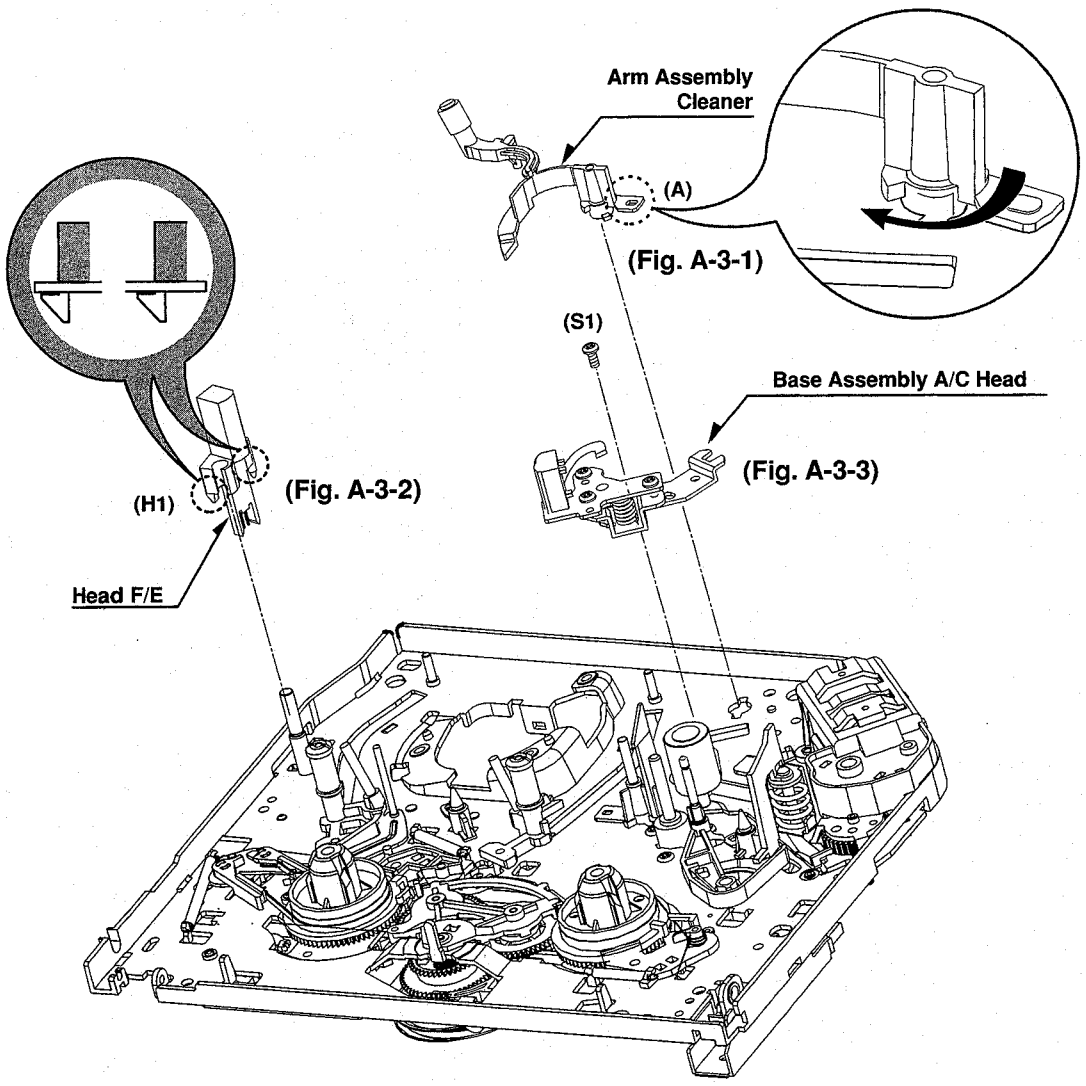


Fig. A-3

8. Arm Assembly Cleaner(Fig. A-3-1)

1) Break away the (A) part shown above Fig. A-3-1 from the Embossing of the Chassis in the clockwise direction and lift up the Arm Assembly Cleaner.

9. Head F/E (Fig. A-3-2)

1) Unhook the two Hooks (H1) on the back side of the Chassis and lift up the Head F/E.

10. Base Assembly A/C Head (Fig. A-3-3)

1) Remove the Screw (S1) and lift up the Base Assembly A/C Head.

DECK MECHANISM DISASSEMBLY

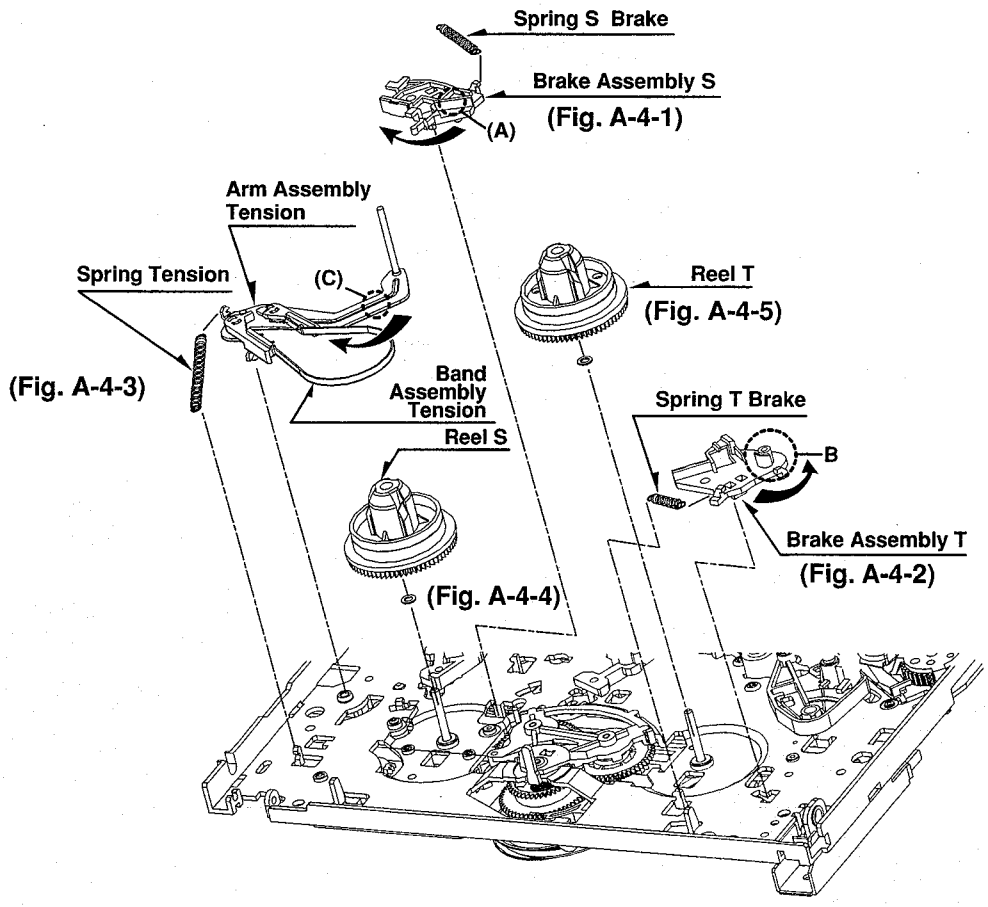


Fig. A-4

11. Brake Assembly S (Fig. A-4-1)

1) Remove the Spring S Brake.
2) Hold the (A) part shown above Fig. A-4-1 and turn to the clockwise direction, and then lift up the Brake Assembly S.

NOTE

(1) When reassembling, be careful not to change the Spring with below No.12.(Refer to Fig. B-2).

12. Brake Assembly T (Fig. A-4-2)

1) Remove the Spring T Brake.
2) Hold the (B) part shown above Fig. A-4-2 and turn to the counterclockwise direction, and then lift up the Brake Assembly T.

NOTE

(1) When reassembling, be careful not to change the Spring with above No.11.(Refer to Fig. B-2).

(Difference for Springs) (Fig. B-2)

	Spring T Brake Color (Black)
	Spring S Brake
	Spring Tension

13. Arm Assembly Tension (Fig. A-4-3)

1) Remove the Spring Tension.
2) Hold the (C) part shown above Fig. A-4-3 and turn to the clockwise direction, and then lift up the Arm Assembly Tension.

NOTE

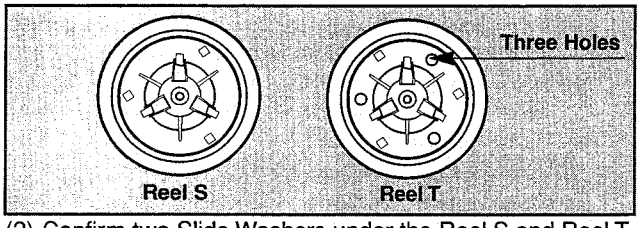
(1) When reassembling, be careful not to change the Spring with above No.11,12.(Refer to Fig. B-2).

14. Reel S (Fig. A-4-4) & Reel T (Fig. A-4-5)

1) Lift up the Reel S and Reel T.

NOTE

(1) When reassembling, be careful not to change the Reel S and Reel T each other.



(2) Confirm two Slide Washers under the Reel S and Reel T.

DECK MECHANISM DISASSEMBLY

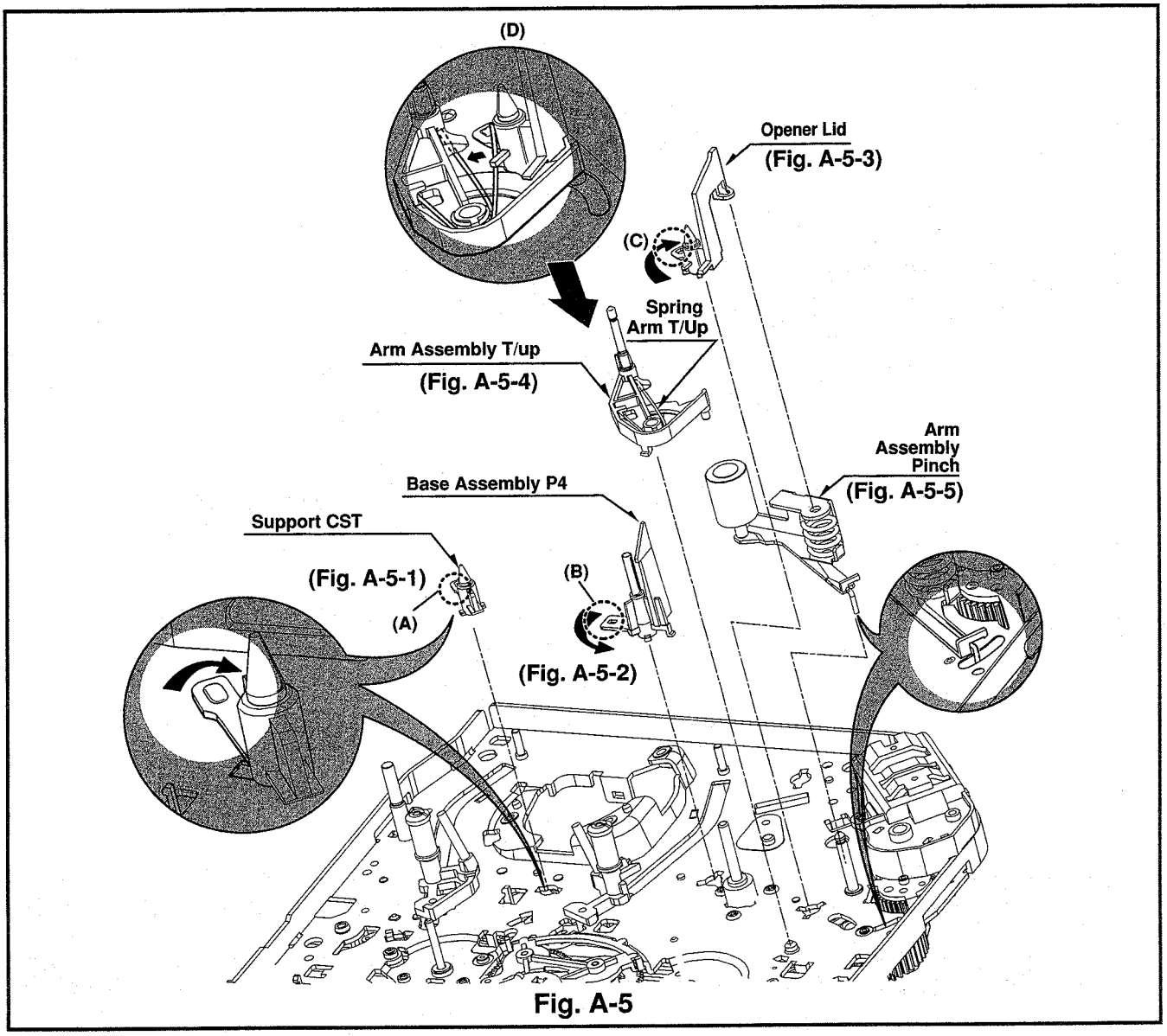


Fig. A-5

15. Support CST (Fig. A-5-1)

1) Break away the (A) part shown above Fig. A-5-1 from the Embossing of the Chassis in the clockwise direction, and lift up the Support CST.

16. Base Assembly P4 (Fig. A-5-2)

1) Break away the (B) part shown above Fig. A-5-2 from the Embossing of the Chassis in the counterclockwise direction and lift up the Base Assembly P4.

17. Opener Lid (Fig. A-5-3)

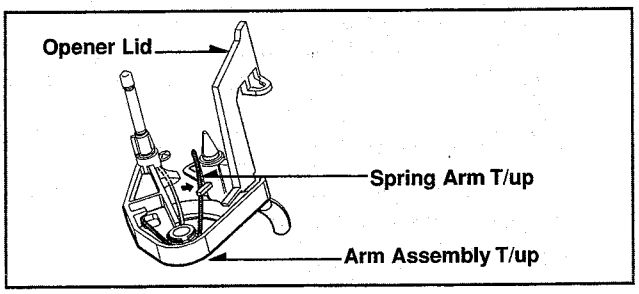
1) Hook the Spring Arm T/up on the Split digged under the Arm Assembly T/up.(Refer to Fig.A-5-4(D)).
2) Break away the (C) Part of the Opener Lid from the Embossing of the Chassis in the Clockwise direction and lift up the Opener Lid.

18. Arm Assembly T/up (Fig. A-5-4)

1) Confirm that the Spring Arm T/up is placed as above (No.17.1).
2) Lift up the Arm Assembly T/up.

NOTE

(1) When reassembling, unhook the Spring Arm T/up Shown above (No.17.1) to the original position.



19. Arm Assembly Pinch (Fig. A-5-5)

1) Lift up the Arm Assembly Pinch.

DECK MECHANISM DISASSEMBLY

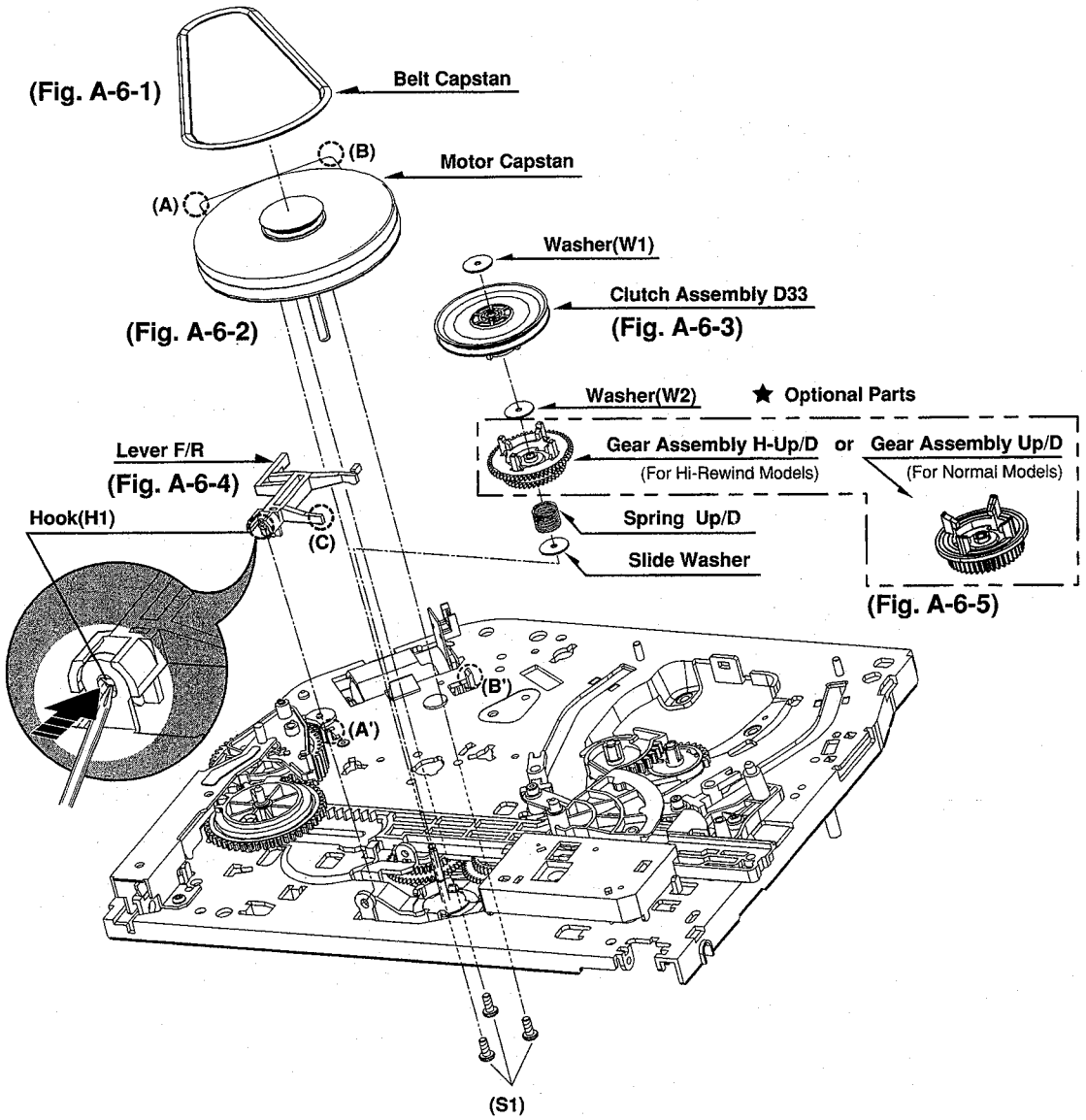


Fig. A-6

20. Belt Capstan (Fig. A-6-1)/ Motor Capstan (Fig. A-6-2)

1) Remove the Belt Capstan.
2) Remove three Screws(S1) on the back side of the Chassis and lift up the Motor Capstan.

NOTE

(1) When reassembling, Confirm the (A), (B) parts of Motor Capstan is located to the (A'), (B') of the Chassis.

21. Clutch Assembly D33 (Fig. A-6-3)

1) Remove the Washer(W1) and lift up the Clutch Assembly D33.

22. Lever F/R (Fig. A-6-4)

1) Unhook the (H1) shown above Fig. A-6-4 and lift up the Lever F/R.

NOTE

(1) When reassembling, move the (C) part of the Lever F/R up and down, then confirm if it is returned to original position.

23. Gear Assembly H-Up/D or Gear Assembly Up/D (Fig. A-6-5)

1) Remove the Washer(W2) and lift up the Gear Assembly H-up/D.
2) Remove the Spring Up/D.
3) Remove the Slide Washer.

NOTE

(1) Gear Assembly H-Up/D is for Hi-Rewind Models.
(2) Gear Assembly Up/D is for Normal Models except Hi-Rewind Models.

DECK MECHANISM DISASSEMBLY

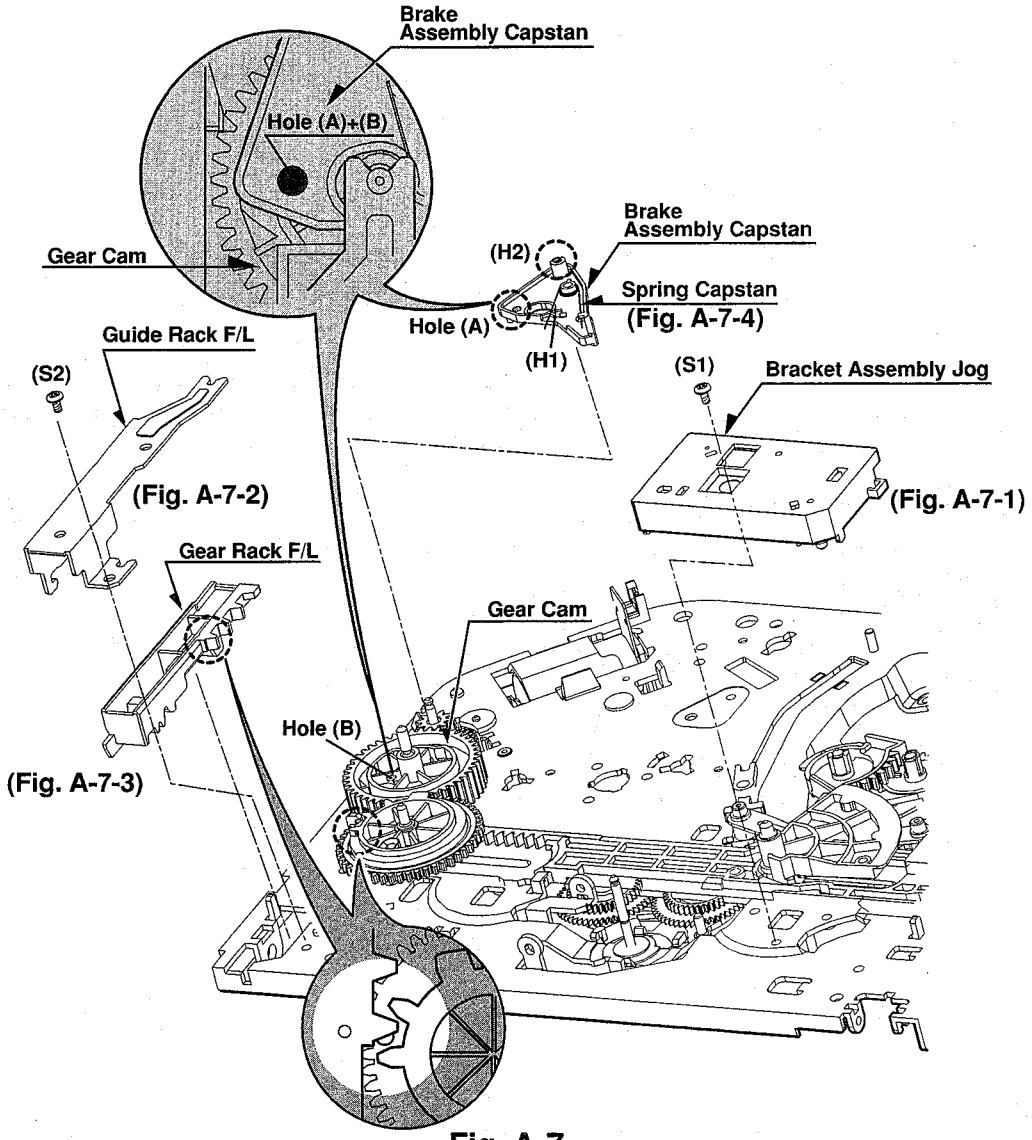


Fig. A-7

24. Bracket Assembly Jog (Fig. A-7-1)

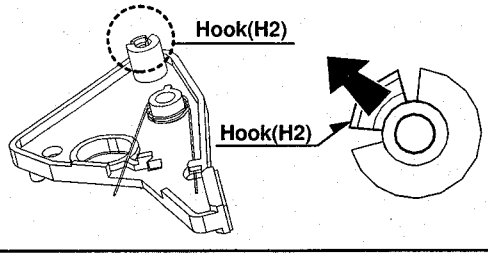
1) Remove the Screw(S1) and lift up the Bracket Assembly Jog.

25. Guide Rack F/L (Fig. A-7-2)/ Gear Rack F/L (Fig. A-7-3)

1) Remove the Screw(S2) and lift up the Guide Rack F/L.
2) Lift up the Gear Rack F/L.

26. Brake Assembly Capstan (Fig. A-7-4)

1) Hook the Spring Capstan on the Hook(H1).
2) Unhook the Hook(H2) and lift up the Brake Assembly Capstan.(Refer to Fig. to the right)



NOTE

(1) When reassembling, confirm that the Hole(A) of the Brake Assembly Capstan is aligned to the Hole(B) of the Gear Cam.
(Refer to above Fig. A-7-4).

DECK MECHANISM DISASSEMBLY

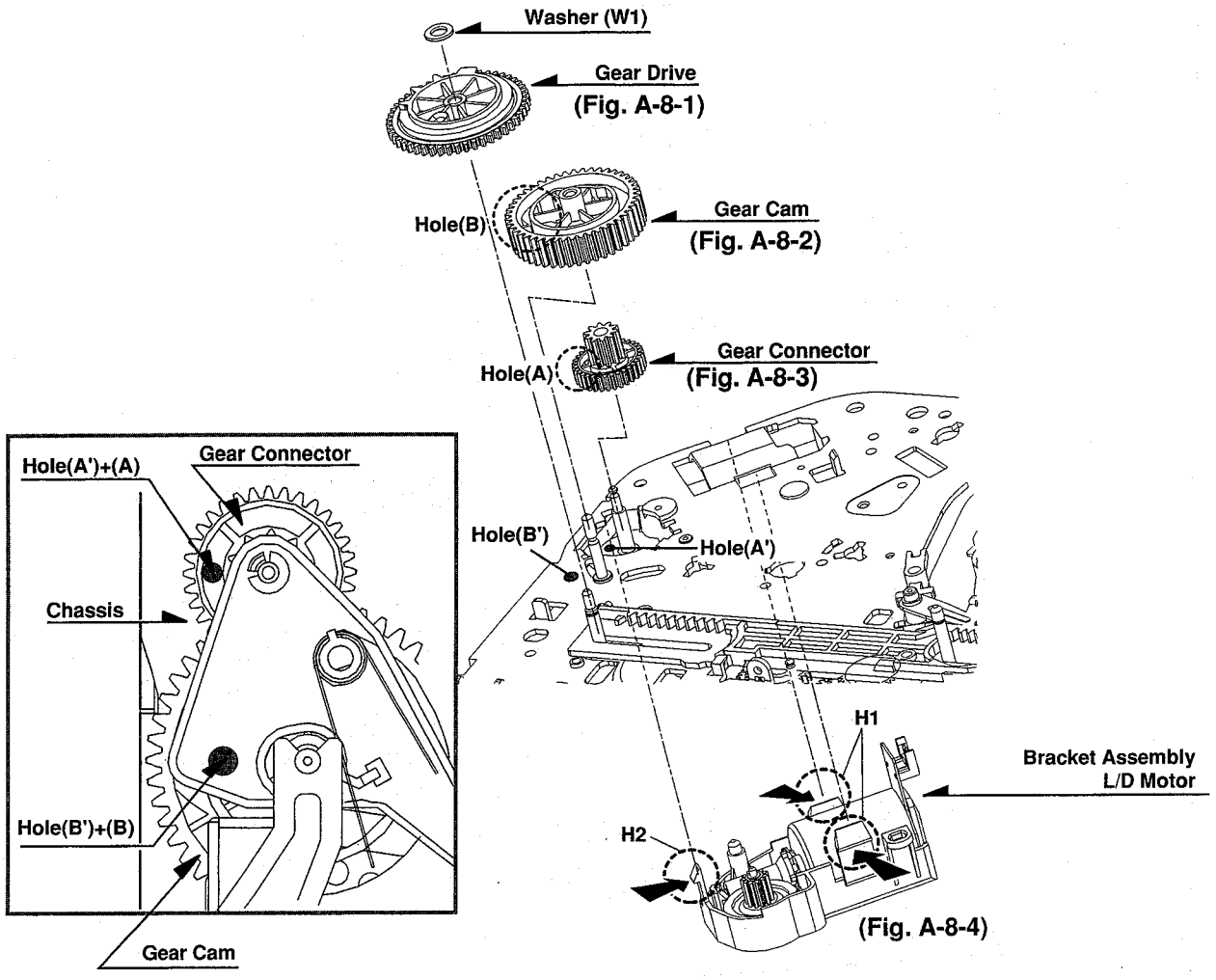


Fig. A-8

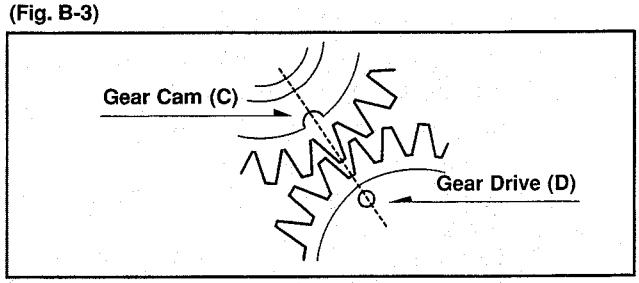
27. Gear Drive (Fig. A-8-1)/ Gear Cam (Fig. A-8-2)/ Gear Connector (Fig. A-8-3)

1) Remove the Washer(W1) and lift up the Gear Drive.
2) Lift up the Gear Cam.
3) Lift up the Gear Connector.

NOTE

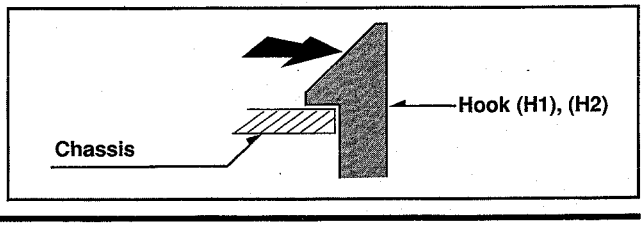
(1) When reassembling, confirm that the Hole (A) of the Gear Connector is aligned to the Hole (A') of the Chassis (Fig. A-8-3).
(2) When reassembling, confirm that the Hole (B) of the Gear Cam is aligned to the Hole (B') of the Chassis (Fig. A-8-2).
(3) When reassembling, confirm that the (C) part of the Gear Cam is aligned to the (D) part of the Gear Drive as shown Fig. B-3

(Fig. B-3)



28. Bracket Assembly L/D Motor (Fig. A-8-4)

1) Unhook the three Hooks(H1),(H2) and push down the Bracket Assembly L/D Motor.



DECK MECHANISM DISASSEMBLY

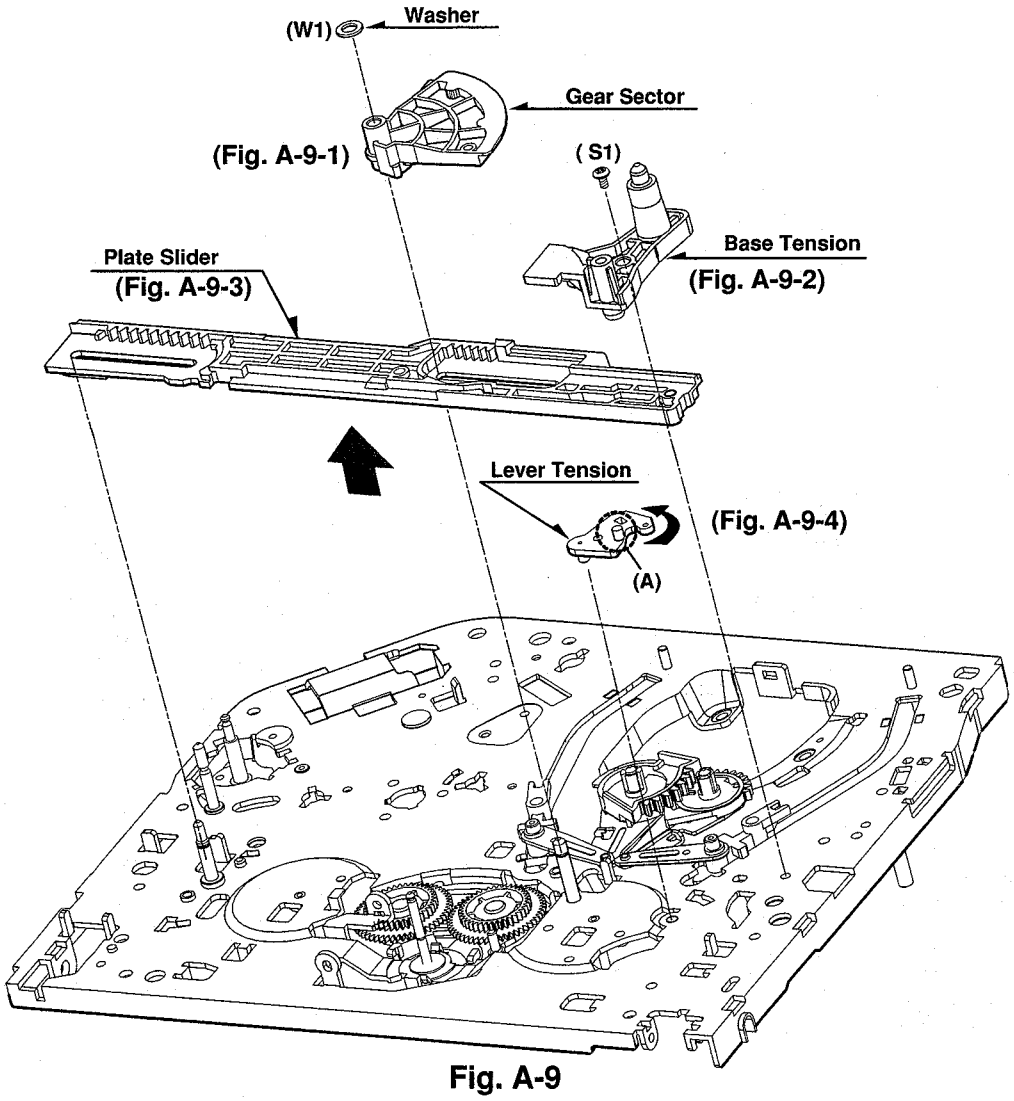


Fig. A-9

29. Gear Sector (Fig. A-9-1)

1) Remove the Washer(W1) and lift up the Gear Sector.

30. Base Tension (Fig. A-9-2)/ Plate Slider (Fig. A-9-3)/ Lever Tension (Fig. A-9-4)

1) Remove the Screw(S1) and lift up the Base Tension.
2) Lift up the Plate Slider.
3) Hold the (A) Part of the Lever Tension and turn to the counterclockwise direction, and then lift up the Lever Tension.

NOTE

(1) When reassembling, turn the Lever Tension to the clockwise direction in maximum.

DECK MECHANISM DISASSEMBLY

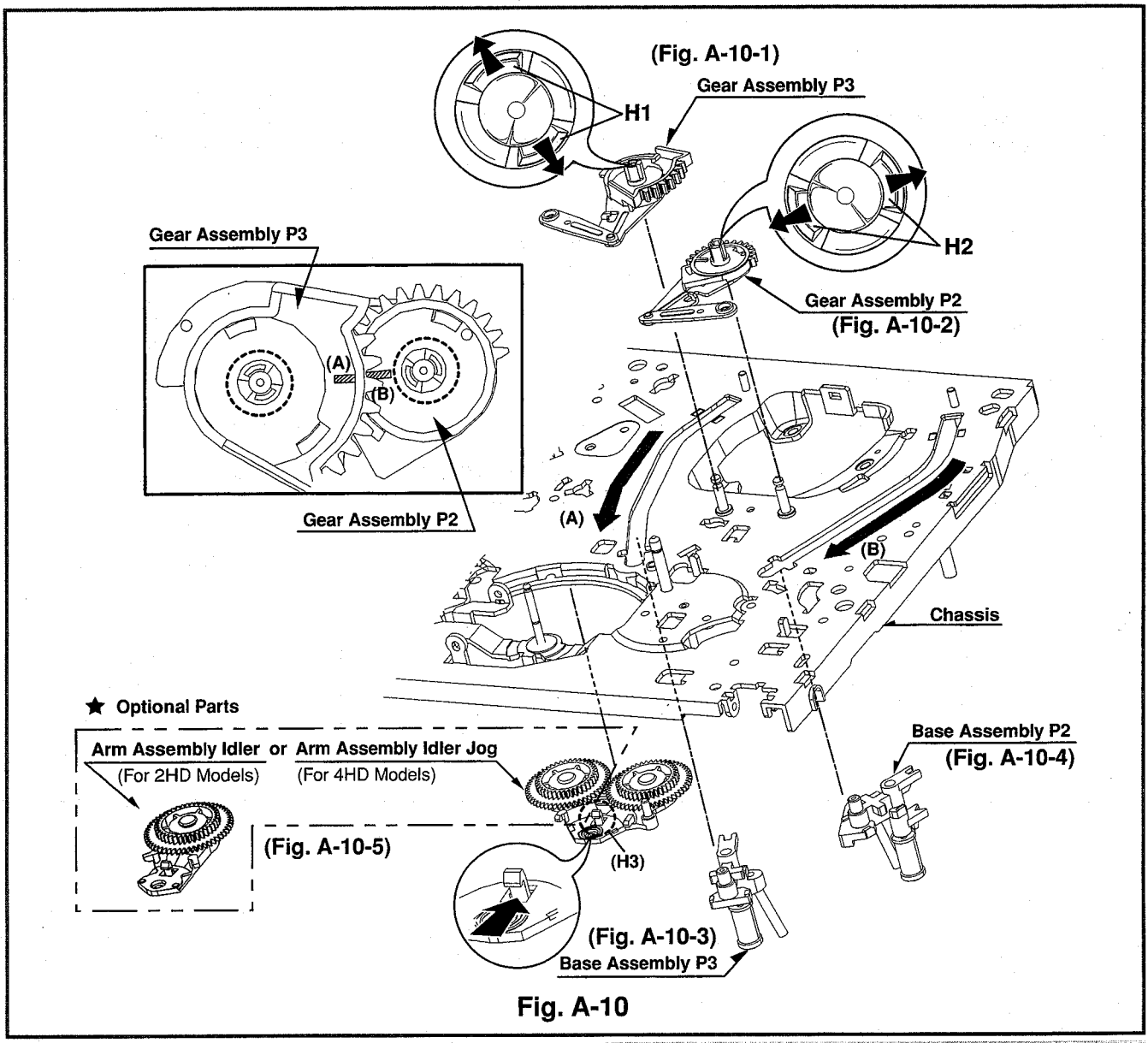


Fig. A-10

31. Gear Assembly P3 (Fig. A-10-1)/ Gear Assembly P2 (Fig. A-10-2)

1) Unhook the two Hooks(H1) and lift up the Gear Assembly P3.
2) Unhook the two Hooks(H2) and lift up the Gear Assembly P2.

32. Base Assembly P3 (Fig. A-10-3)/ Base Assembly P2 (Fig. A-10-4)

1) Move the Base Assembly P3 in the direction of the arrow of the Chassis Hole(A) and push down the Base Assembly P3.
2) Move the Base Assembly P2 in the direction of the arrow of the Chassis Hole(B) and push down the Base Assembly P2.

33. Arm Assembly Idler Jog or Arm Assembly Idler (Fig. A-10-5)

1) Unhook the Hook(H3) and push down the Arm Assembly Idler Jog.

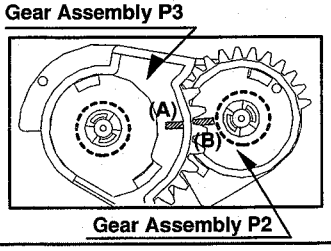
NOTE

1) Arm Assembly Idler Jog is for 4HD Models.
2) Arm Assembly Idler is for 2HD Models.

NOTE

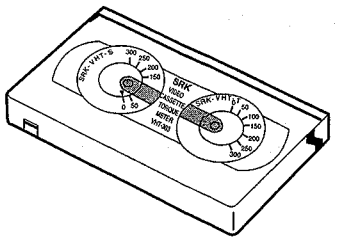
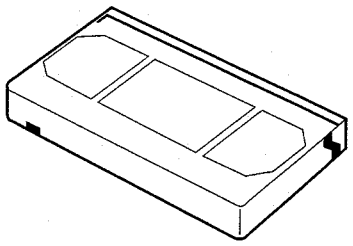
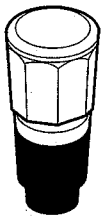
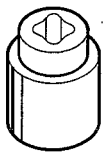
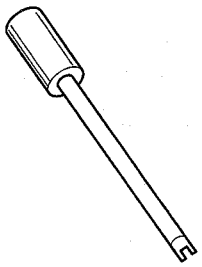
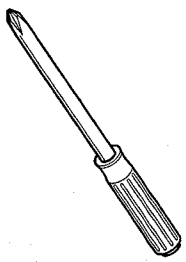
1) When reassembling, confirm that the (A) Part of the Gear Assembly P3 is aligned to the (B) Part of the Gear Assembly P2 as shown below.

(Unloading Condition)



DECK MECHANISM ADJUSTMENT

• Tools and Fixfures for Service

1. Cassette Torque meter SRK-VHT-303(Not SVC part) Parts No: D00-D006 	2. Alignment tape Parts No NTSC: DTN-001 PAL:DTN-0002 	3. Torque gauge 600g.Cm ATG Parts No:D00-D002 
4. Torque gauge adaptor Parts No:D09-R001 	5. Post height adjusting driver Parts No:DTL-0005 	6. + Type driver (ø 5) 

DECK MECHANISM ADJUSTMENT

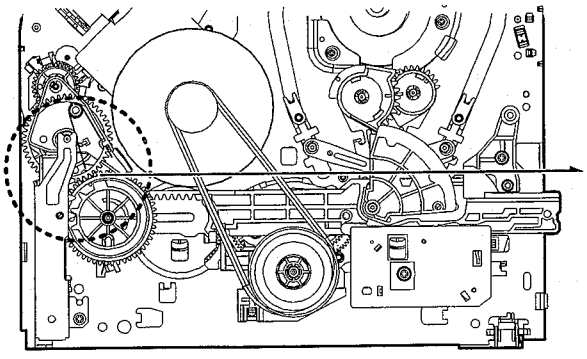
1.Mechanism Alignment Position Check

Purpose:To determine if the Mechanism is in the correct position, when a Tape is ejected.

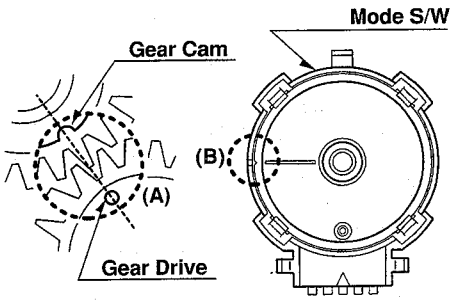
Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Check Point
• Blank tape	• Eject Mode (with Cassette ejected)	• Mechanism and Mode Switch Position

1) Turn the Power S/W on and eject the Cassette by pressing the Eject Button.
2) Remove the Top Cover and Plate Assembly Top, visually check if the Gear Cam Hole is aligned with the Chassis Hole as below Fig. C-2.
3) IF not, rotate the Shaft of the Loading Motor to either Clockwise or Counterclockwise until the Alignment is as below Fig. C-2.
4) Remove the Screw which fixes the Deck Mechanism and Main Frame and confirm if the Gear Cam is aligned with the Gear Drive as below Fig. C-1(A).
5) Confirm if the Mode S/W on the Main P.C.Board is aligned as below Fig. C-1(B).
6) Remount the Deck Mechanism on the Main P.C.Board and check each operation.

CHECK DIAGRAM

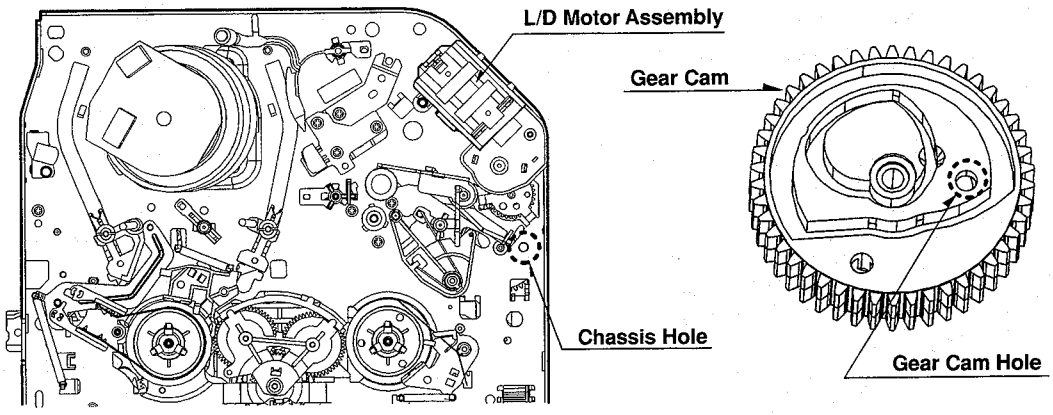


BOTTOM VIEW



Gear Cam (∩) and Gear Drive (o) groove alignment

Fig. C-1



TOP VIEW

Fig. C-2

DECK MECHANISM ADJUSTMENT

2. Preparation for Adjustment (To set the Deck Mechanism to the Loading state without inserting a Cassette Tape).

1) Unplug the Power Cord from the AC Outlet.
2) Disassemble the Top Cover and Plate Assembly Top.
3) Plug the Power Cord into the AC Outlet.
4) Turn the Power S/W on and push the Lever Stopper (L),(R) of the Holder Assembly CST to the back for Loading the Cassette without Tape.
Cover the Holes of the End Sensors at the both sides of the Bracket Side(L) and Bracket Assembly Door to prevent a light leak.
Then The Deck Mechanism drives to the Stop Mode.
In this case, The Deck Mechanism can accept inputs of each mode, however the Rewind and Review Operation can not be performed for more than a few seconds because the Take-up Reel Table is in the Stop State and can not be detected the Reel Pulses.

3. Checking Torque

Purpose: To insure smooth Transport of the Tape during each Mode of Operation.
If the Tape Transport is abnormal, then check the Torque as indicated by the chart below.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Checking Method
• Torque Gauge(600g/cm ATG) • Torque Gauge Adaptor • Cassette Torque Meter SRK-VHT-303	• Play (FF) or Review (REW) Mode	• Perform each Deck Mechanism Mode without inserting a Cassette Tape(Refer to above No.2 Preparation for Adjustment). • Read the Measurement of the Take-up or Supply Reels on the Cassette Torque Meter(Fig. C-3-2). • Attach the Torque Gauge Adaptor to the Torque Gauge and then read the Value of it(Fig. C-3-1).

Item	Mode	Test Equipment	Measurement Reel	Measurement Values
Fast Forward Torque	Fast Forward	Cassette Torque Gauge	Take-Up Reel	More than 400g/cm
Rewind Torque	Rewind	Cassette Torque Gauge	Supply Reel	More than 400g/cm
Play Take-Up Torque	Play	Cassette Torque Meter	Take-Up Reel	75~115g/cm
Review Torque	Review	Cassette Torque Meter	Supply Reel	130~200g/m

NOTE:

The Values are measured by using a Torque Gauge and Torque Gauge Adaptor with the Torque Gauge affixed.

• Cassette Torque Meter (SRK-VHT-303)

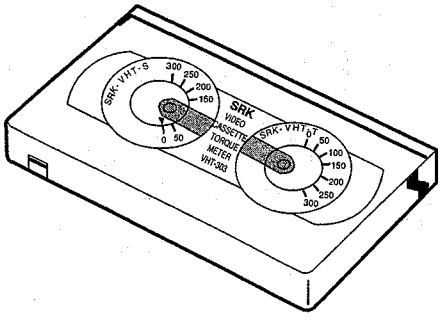


Fig. C-3-2

NOTE:

The Torque reading to measure occurs when the Tape abruptly changes direction from Fast Forward of Rewind Mode, when quick bracking is applied to both Reels.

• Torque Gauge (600g.cm ATG)

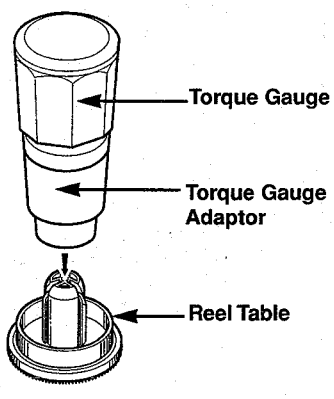


Fig. C-3-1

DECK MECHANISM ADJUSTMENT

4.Guide Roller Height Adjustment

Purpose: To regulate the Height of the Tape so that the Bottom of the Tape runs along the Tape Guide Line on the Lower Drum.

4-1. Preliminary Adjustment

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
• Post Height Adjusting Driver	• Play or Review Mode	• Guide Roller Height Adjustment screws on the Supply and Take-Up Guide Rollers.

Adjustment Procedure

1) Confirm if the Tape runs along the Tape Guide Line of the Lower Drum.
2) If the Tape runs the Bottom of the Guide Line, turn the Guide Roller Height Adjustment Screw to Clockwise direction.
3) If it runs the Top, turn to Counterclockwise direction.
4) Adjust the Height of the Guide Roller to be guided to the Guide Line of the Lower Drum from the Starting and Ending Point of the Drum.

ADJUSTMENT DIAGRAM

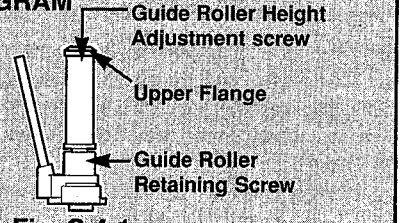


Fig. C-4-1

4-2. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Points	Test Conditions VCR(VCP) State	Adjustment Point
• Oscilloscope • Alignment Tape • Post Height Adjusting Driver	• CH-1:PB RF Envelope • CH-2:NTSC: SW 30Hz PAL: SW 25Hz • Head Switching Output Point • RF Envelope Output Point	• Play an Alignment Tape	• Guide Roller Height Adjustment Screws

Adjustment Procedure

1) Play an Alignment Tape after connecting the Probe of the Oscilloscope to the RF Envelope Output Test Point and Head Switching Output Test Point.
2) Tracking Control(in PB Mode) : Center Position(When this Adjustment is performed after the Drum Assembly has been replaced, set the Tracking Control so that the RF Output is Maximum).
3) Height Adjustment Screw : Flatten the RF Waveform. (Fig. C-4-2)
4) Turn(Move) the Tracking Control(in PB Mode) Clockwise and Counterclockwise.(Fig. C-4-3)
5) Check that any Drop of RF Output is uniform at the Start and End of the Waveform.

NOTE

If the adjustment is excessive or insufficient the tape will jam or fold.

Waveform Diagrams

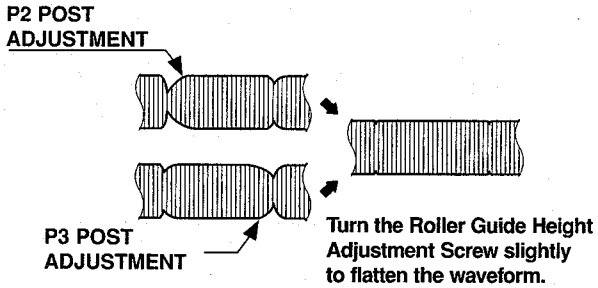


Fig. C-4-2

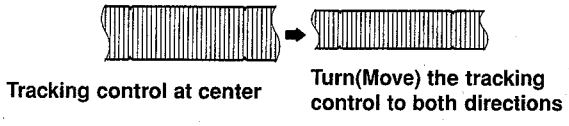
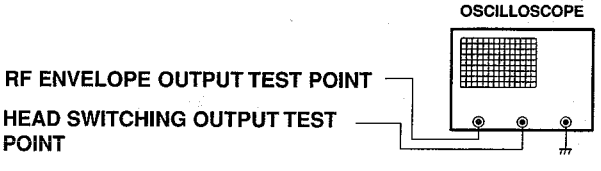


Fig. C-4-3

Connection Diagram



DECK MECHANISM ADJUSTMENT

5. Audio/Control (A/C) Head Adjustment

Purpose: To insure that the Tape passes accurately over the Audio and Control Tracks in exact Alignment in both the Record and Playback Modes.

5-1. Preliminary Adjustment (Height and Tilt Adjustment)

Perform the Preliminary Adjustment, when there is no Audio Output Signal with the Alignment Tape.

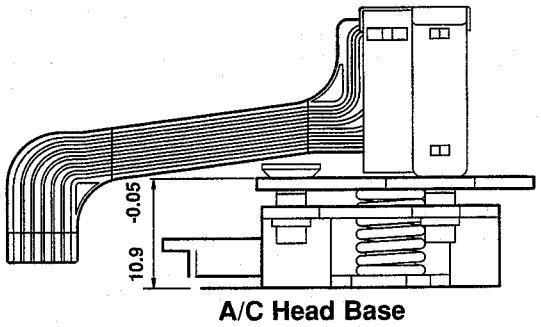
Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
• Blank Tape • Screw Driver(+) Type 5mm	• Play the blank tape	• Tilt Adjustment Screw(C) • Height Adjustment Screw(B) • Azimuth Adjustment Screw(A)

Adjustment Procedure/Diagrams

1) Initially adjust the Base Assembly A/C Head as shown Fig. C-5-1 by using the Height Adjustment Screw(B).
2) Play a Blank Tape and observe if the Tape passes accurately over the A/C Head without Tape Curling or Folding.
3) If Folding or Curling is occured then adjust the Tilt Adjustment Screw(C) while the Tape is running to resemble Fig. C-5-3.
4) Reconfirm the Tape Path after Playback about 4~5 seconds.

NOTE

Ideal A/C head height occurs, when the tape runs between 0.2~0.25mm above the bottom edge of the A/C head core.



A/C Head Base

Fig. C-5-1

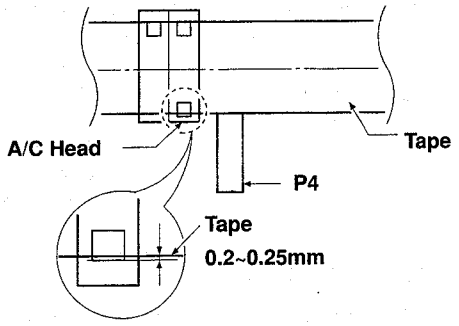
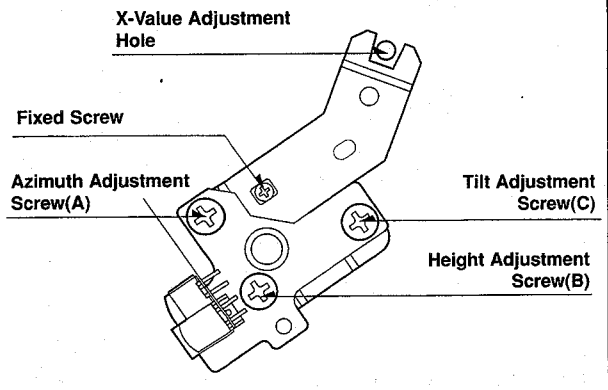


Fig. C-5-3



A/C Head Assembly

Fig. C-5-2

DECK MECHANISM ADJUSTMENT

5-2. Confirm that the Tape passes smoothly between the Take-up Guide and Pinch Roller(using a Mirror or the naked eye).

1) Afetr completing Step 5-1.(Preliminary Adjustment), check that the Tape passes around the Take-up Guide and Pinch Roller without Folding or Curling at the Top or Bottom.
   (1) If Folding or Curling is observed at the Bottom of the Take-up Guide then slowly turn the Tilt Adjustment Screw(C) in the Clockwise directioin.
   (2) If Folding or Curling is observed at the Top of it then slowly turn the Tilt Adjustment Screw(C) in the Counterclockwise direction.

NOTE:

Check the RF Envelope after adjusting the A/C Head, if the RF Waveform differs from Fig. C-5-4, performs Precise Adjustment to flat the RF Waveform.

5-3. Precise Adjustment (Azimuth adjustment)

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
• Oscilloscope • Alignment Tape(SP) • Screw Driver(+) Type 5mm	• Audio output jack	• Play an Alignment Tape 1KHz, 7KHz Sections	• Azimuth Adjustment Screw(A) • Height Adjustment Screw(B)

Adjustment Procedure

1) Connect the Probe of the Oscilloscope to Audio Output Jack.
2) Alternately adjust the Azimuth Adjustment Screw(A) and the Tilt Adjustment Screw(C) for Maximum Output of the 1Khz and 7Khz segments, while maintaining the flattest Envelope differential between the two Frequencies.

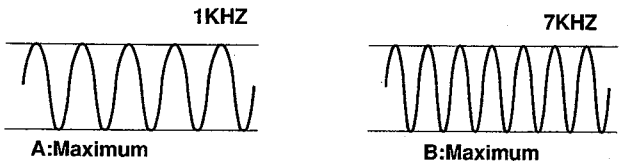
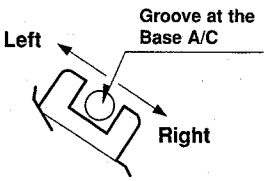


Fig. C-5-4

6. X-Value Adjustment

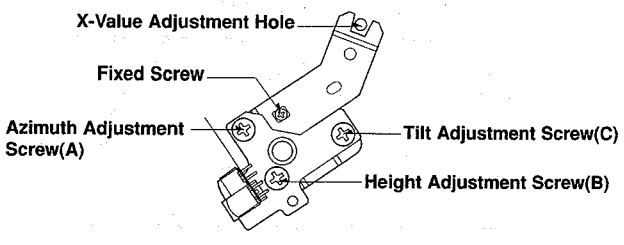
Purpose: To obtain compatibility with other VCR(VCP) Models.

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
• Oscilloscope • Alignment tape(SP only) • Screw Driver(+) Type 5mm	• CH-1: PB RF Envelope • CH-2: NTSC: SW 30Hz PAL: SW 25Hz • Head Swithching Output Test Point • RF Envelope Output Test Point	• Play an Alignment Tape	

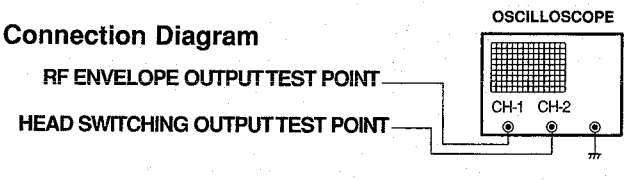
Adjustment Procedure

1) Release the Automatic Tracking to run long enough for Tracking to complete it's Cycle.
2) Loosen the Fixed Mounting Screw and move the Base Assembly A/C Head in the direction as shown in the Diagram to find the center of the peak that allows for the maximum Waveform Envelope.
   This method should allow the 31um Head to be centrally located over the 58um Tape Track.
3) Tighten the Base Assembly A/C Head mounting Screw.

Adjustment Diagram



Connection Diagram



DECK MECHANISM ADJUSTMENT

7. Adjustment after Replacing Drum Assembly (Video Heads)

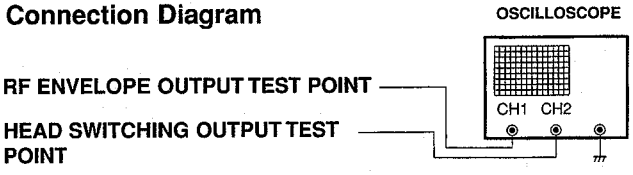
Purpose: To correct for shift in the Roller Guide and X value after replacing the Drum.

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Points
• Oscilloscope • Alignment tapes • Blank Tape • Post Height Adjusting Driver • Screw Driver(+) Type 5mm	• CH-1: PB RF Envelope • CH-2: NTSC: SW 30Hz PAL: SW 25Hz • Head Swithching Output Test Point • RF Envelope Output Test Point	• Play the blank tape • Play an alignment tape	• Guide Roller Precise Adjustment • Switching Point • Tracking Preset • X-Value

Checking/Adjustment Procedure

Play a blank tape and check for tape curling or creasing around the roller guide. If there is a problem then follow the procedure 4. "Guide Roller Height" and 5. "Audio Control(A/C) Head Adjustment".

Connection Diagram



Waveform

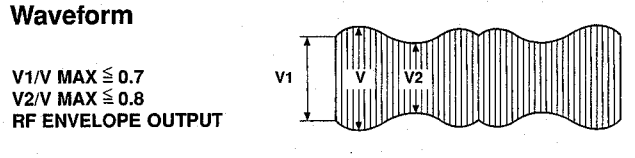


Fig. C-7

8. Check the Tape Travel after Reassembling Deck Assembly.

8-1.Check Audio and RF Locking Time during playback and after CUE or REV (FF/REW)

Test Equipment/ Fixture	Specification	Connection Points	Test Conditions (Mecanism Condition)
• Oscilloscope • Alignment tapes(with 6H 3kHz Color Bar Signal) • Stop Watch	• RF Locking Time: Less than 5 sec. • Audio Locking Time:Less than 10sec	• CH-1: PB RF Envelope • CH-2: Audio Output • RF Envelope Output Point • Audio Ouptut Jack	• Play an alignment tape (with 6H 3kHz Color Bar Signal)

Checking Procedure

Play an alignment tape then change the operating mode to CUE or REV and confirm if the unit meets the above listed specifications.

NOTES:

1) CUE is fast forward mode (FF)
2) REV is the rewind mode (REW)
3) Referenced to the Play mode

8-2.Check for tape curling or jamming

Test Equipment/ Fixture	Specification	Test Conditions (Mecanism Condition)
• T-160 Tape • T-120 Tape	• Be sure there is no tape jamming or curling at the begining, middle or end of the tape.	• Run the CUE, REV play mode at the beginning and the end of the tape.

Checking Procedure

1) Confirm that the tape runs smoothly around the roller guides, drum and A/C head assemblies while abruptly changing operating modes from Play to CUE or REV. This is to be checked at the begining, middle and end sections of the cassette.
2) Confirm that the tape passes over the A/C head assembly as indicated by proper audio reproduction and proper tape counter performance.

MAINTENANCE/INSPECTION PROCEDURE

1 Check before starting repairs

The following faults can be remedied by cleaning and oiling. Check the needed lubrication and the conditions of cleanliness in the unit.
Check with the customer to find out how often the unit is used, and then determine that the unit is ready for inspection and maintenance. Check the following parts.

Phenomenon	Inspection	Replacement	
Color beats	Dirt on full-erase head	o	F/E Head
Poor S/N, no color	Dirt on video head	o	Video Head
Vertical or Horizontal jitter	Dirt on video head Dirt on tape transport system	o	
Low volume, Sound distorted	Dirt on Audio/control head	o	A/C Head
Tape does not run. Tape is slack	Dirt on pinch roller	o	Pinch Roller Belt Capston
In Review and Unloading (off mode), the Tape is rolled up loosely.	Clutch Ass'y S27 Torque reduced	o	Clutch Assembly D33
	Cleaning Drum and transport system	Fig. C-9-3	

NOTE

If locations marked with **o** do not operate normally after cleaning, check for wear and replace.
See the EXPLODED VIEWS at the end of this manual as well as the above illustrations See the Greasing (Page 4-22) for the sections to be lubricated and greased.

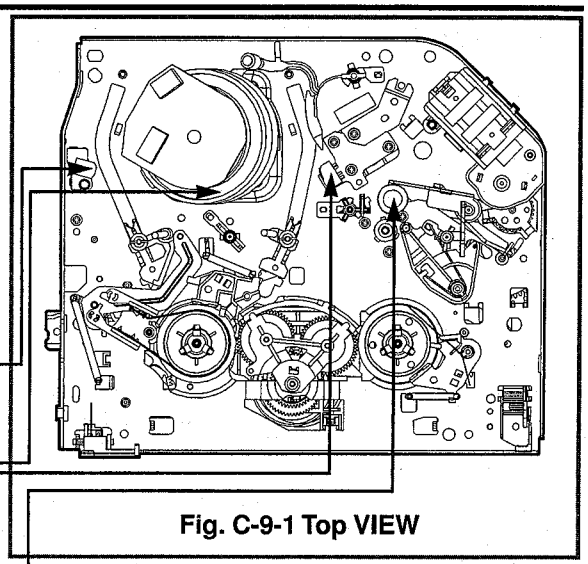


Fig. C-9-1 Top VIEW

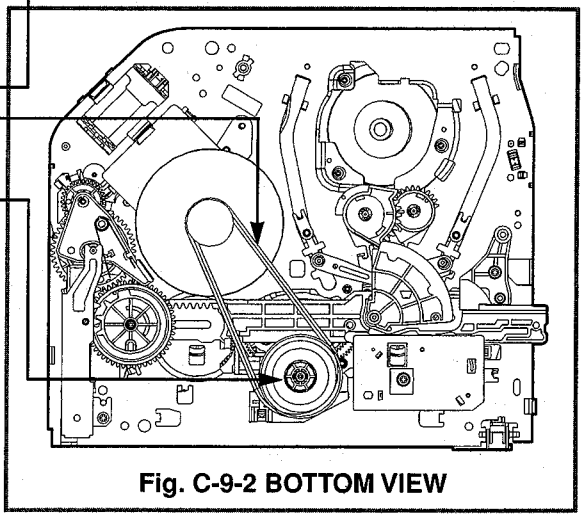


Fig. C-9-2 BOTTOM VIEW

*** No. (1)~(13) Indicates the Tape Path to be traveled from Supply Reel to Take-up Reel.**

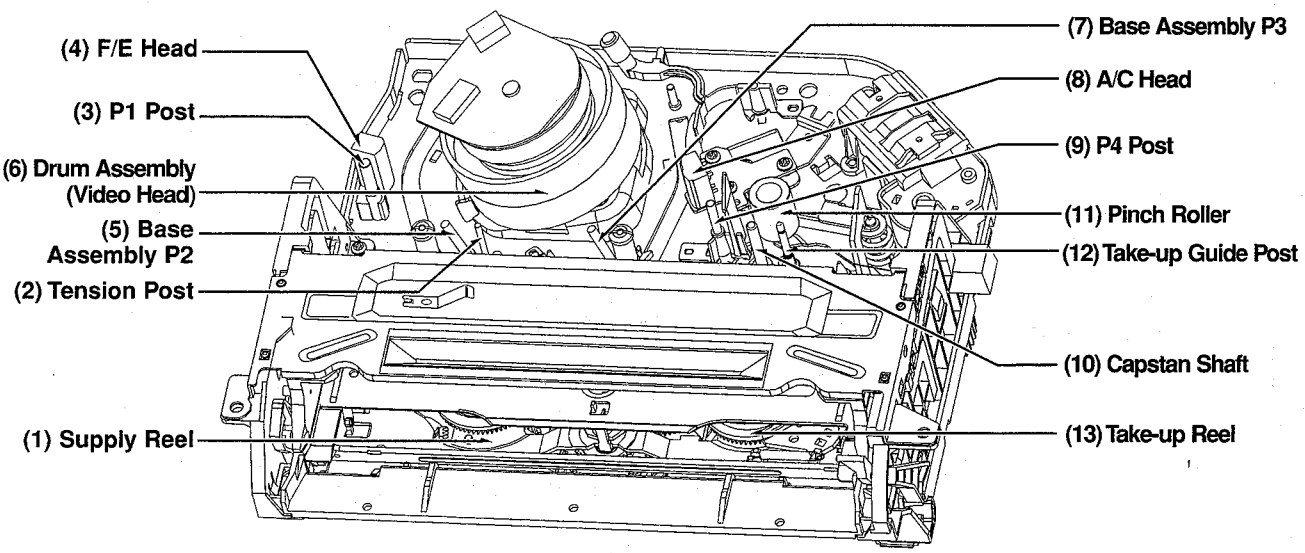


Fig. C-9-3 Tape Transport System

MAINTENANCE/INSPECTION PROCEDURE

2. Required Maintenance

The recording density of a VCR(VCP) is much higher than that of an audio tape recorder. VCR(VCP) components must be very precise, at tolerances of 1/1000mm, to ensure compatiblity with other VCRs. If any of these components are worn or dirty, the symptoms will be the same as if the part is defective. To ensure a good picture, periodic inspection and maintenance, including replacement of worn out parts and lubrication, is necessary.

3. Scheduled Maintenance

Schedules for maintenance and inspection are not fixed because they vary greatly according to the way in which the customer uses the VCR(VCP), and the environment in which the VCR(VCP) is used.
But, in general home use, a good picture will be maintained if inspection and maintenance is made every 1,000 hours. The table below shows the relation between time used and inspection period.

Table 1

When inspection is necessary / Average hours used per day	About 1 year	About 18 months	About 3 years
One hour	▼	▼	▼
Two hours			
Three hours			

4. Supplies Required for Inspection and Maintence

(1) Grease : Kanto G-311G (Blue) or equivalent
(2) Isopropyl Alcohol or equivalent
(3) Cleaning Patches
(4) Grease : Kanto G-381(Yellow) : Used only for Reel S and Reel T

5) Maintenance Procedure

5-1) Cleaning

(1) Cleaning video head
First use a cleaning tape. If the dirt on the head is too stubborn to remove by tape, use the cleaning patch. Coat the cleaning patch with Isopropyl Alcohol. Touch the cleaning patch to the head tip and gently turn the head(rotating cylinder) right and left.
(Do not move the cleaning patch vertically. Make sure that only the buckskin on the cleaning patch comes into contact with the head. Otherwise, the head may be damaged.)
Thoroughly dry the head. Then run the test tape. If Isopropyl Alcohol remains on the video head, the tape may be damaged when it comes into contact with the head surface.
(2) Clean the tape transport system and drive system, etc, by wiping with a cleaning patch wetted with Isporopyl Alcohol.

NOTES:

① It is the tape transport system which comes into contact with the running tape. The drive system consists of those parts which moves the tape.
② Make sure that during cleaning you do not touch the tape transport system with the tip of a screw driver and no that force is that would cause deforming or damage applied to the system.

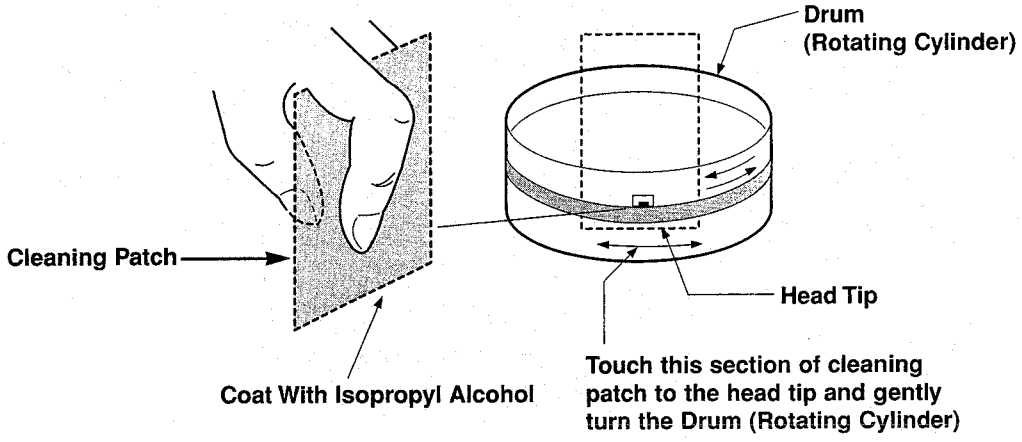

Drum
(Rotating Cylinder)
Cleaning Patch
Head Tip
Coat With Isopropyl Alcohol
Touch this section of cleaning patch to the head tip and gently turn the Drum (Rotating Cylinder)

Fig. C-9-4

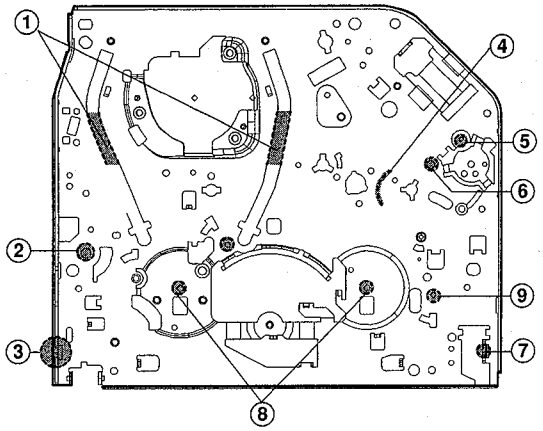
MAINTENANCE/INSPECTION PROCEDURE

5-2) Greasing

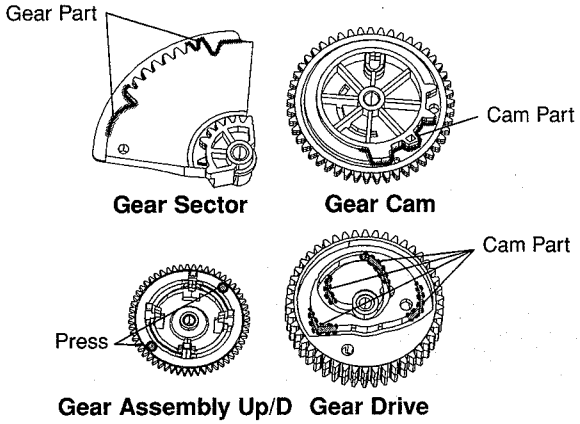
(1) Greasing guidelines
Apply grease, with a cleaning patch. Do not use excess grease. It may come into contact with the tape transport or drive system. Wipe any excess and clean with clean ing patch wetted in Isopropyl Alcohol.

NOTE:Greasing Points

1) Loading Path Inside & Top side
2) Base Tension Boss inside Hole
3) Arm Assembly F/L "U" Groove
4) Arm Take-up Rubbing Section
5) L/D Motor Worm Wheel Part
6) Shaft
7) Arm Assembly F/L of Burning Inside Hole
8) Reel S, T Shaft (G381:Yellow)
9) Brake T Groove

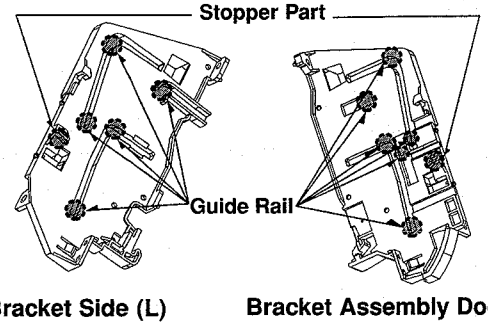


Chassis (Top)



Gear Sector **Gear Cam**

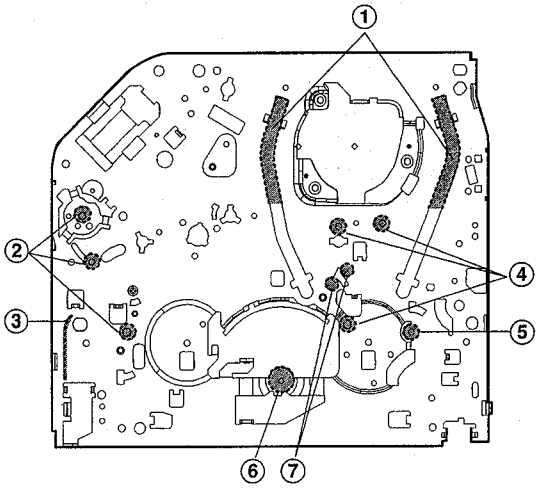
Gear Assembly Up/D **Gear Drive**



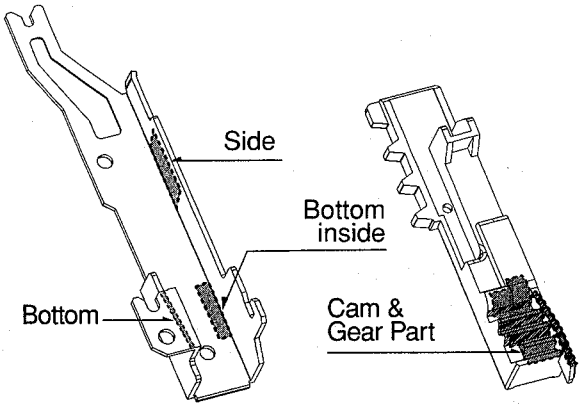
Bracket Side (L) **Bracket Assembly Door**

(2) Periodic greasing
Grease specified locations every 5,000 hours.

1) Loading Path Inside & Top side
2) Shaft
3) Gear Rack F/L Moving Section
4) Shaft
5) Lever Tension Groove
6) Clutch Assembly D33 Shaft
7) Brake "S" Rubbing Section



Chassis (Bottom)



Guide Rack F/L **Gear Rack F/L**

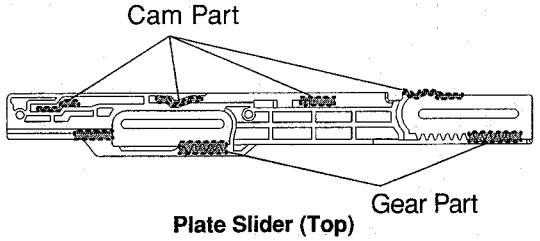


Plate Slider (Top)

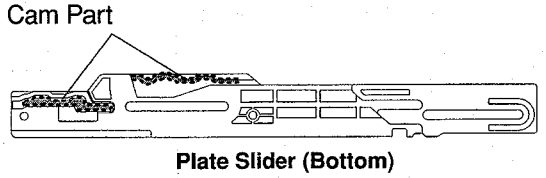
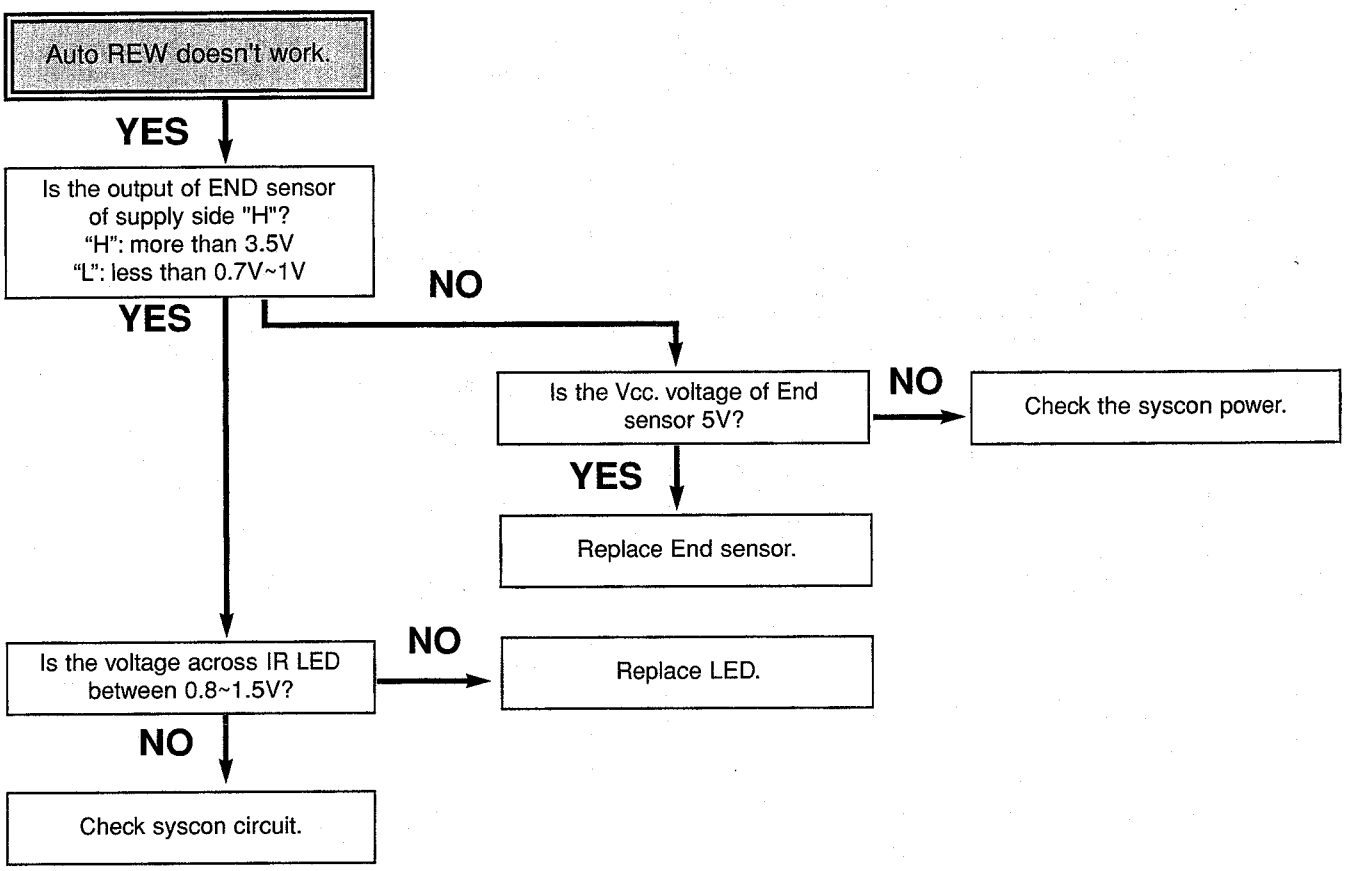


Plate Slider (Bottom)

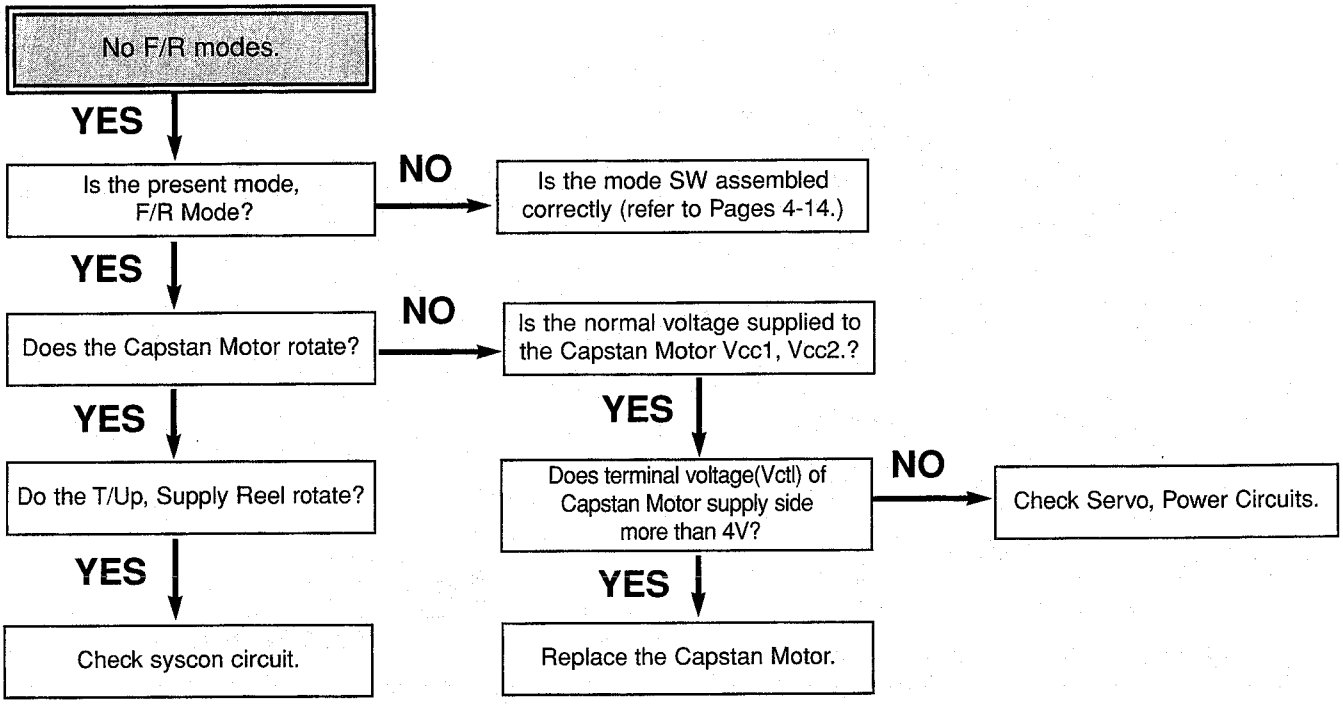
MECHANISM TROUBLESHOOTING GUIDE

1.Deck Mechanism

A.

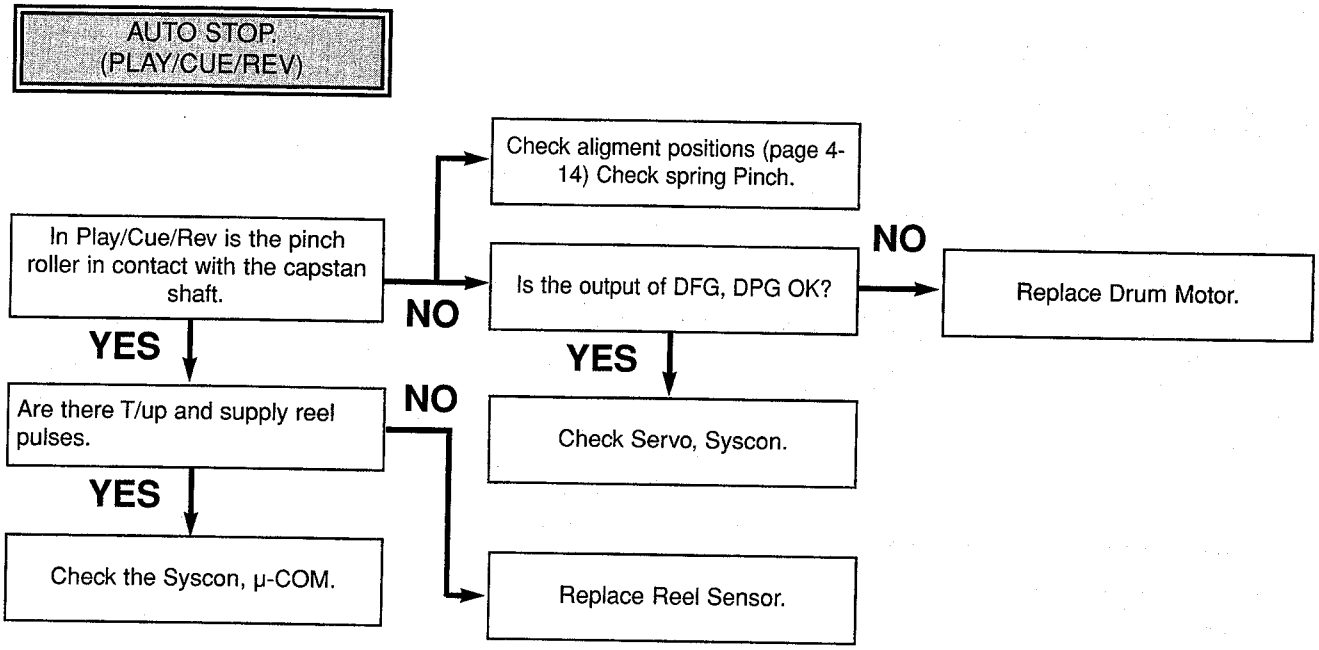


B.

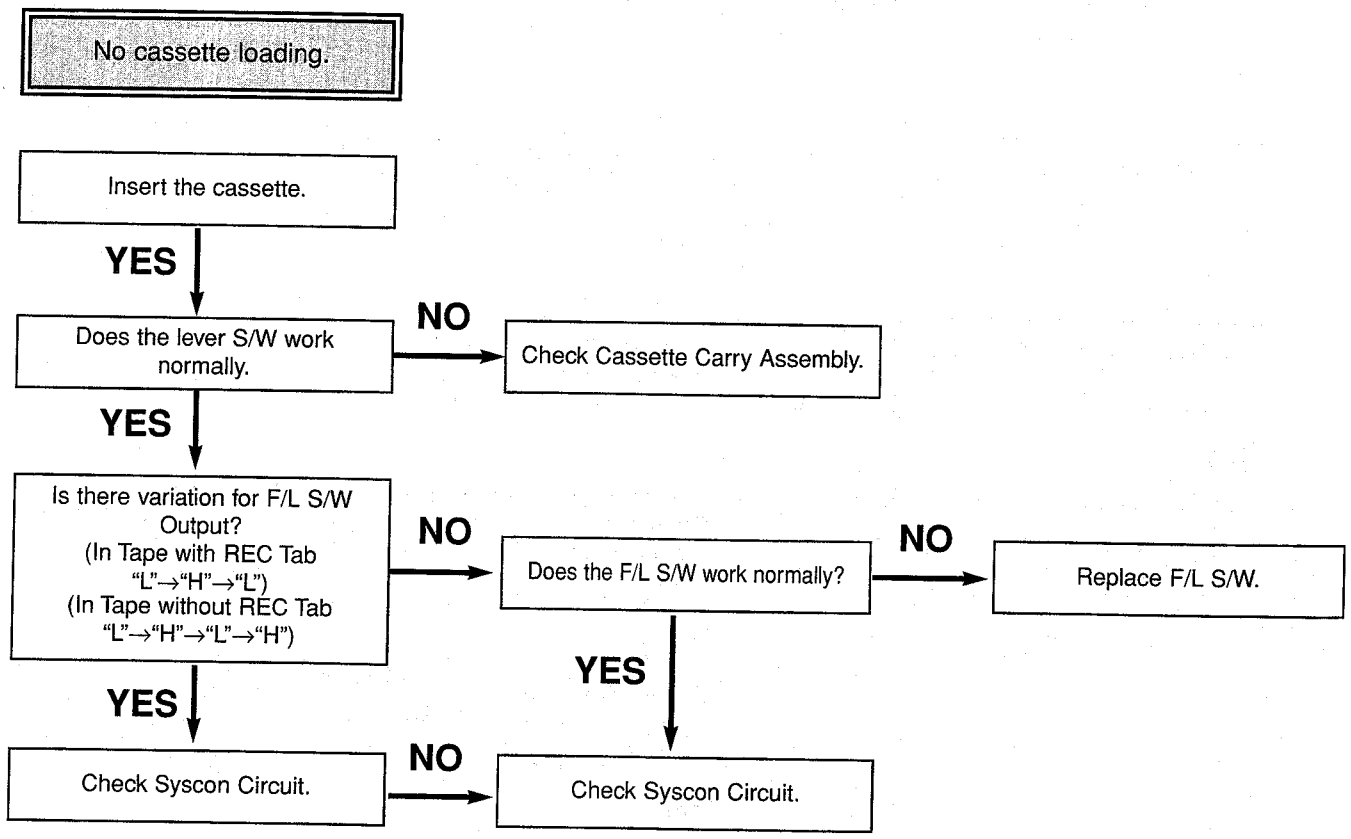


MECHANISM TROUBLESHOOTING GUIDE

C.

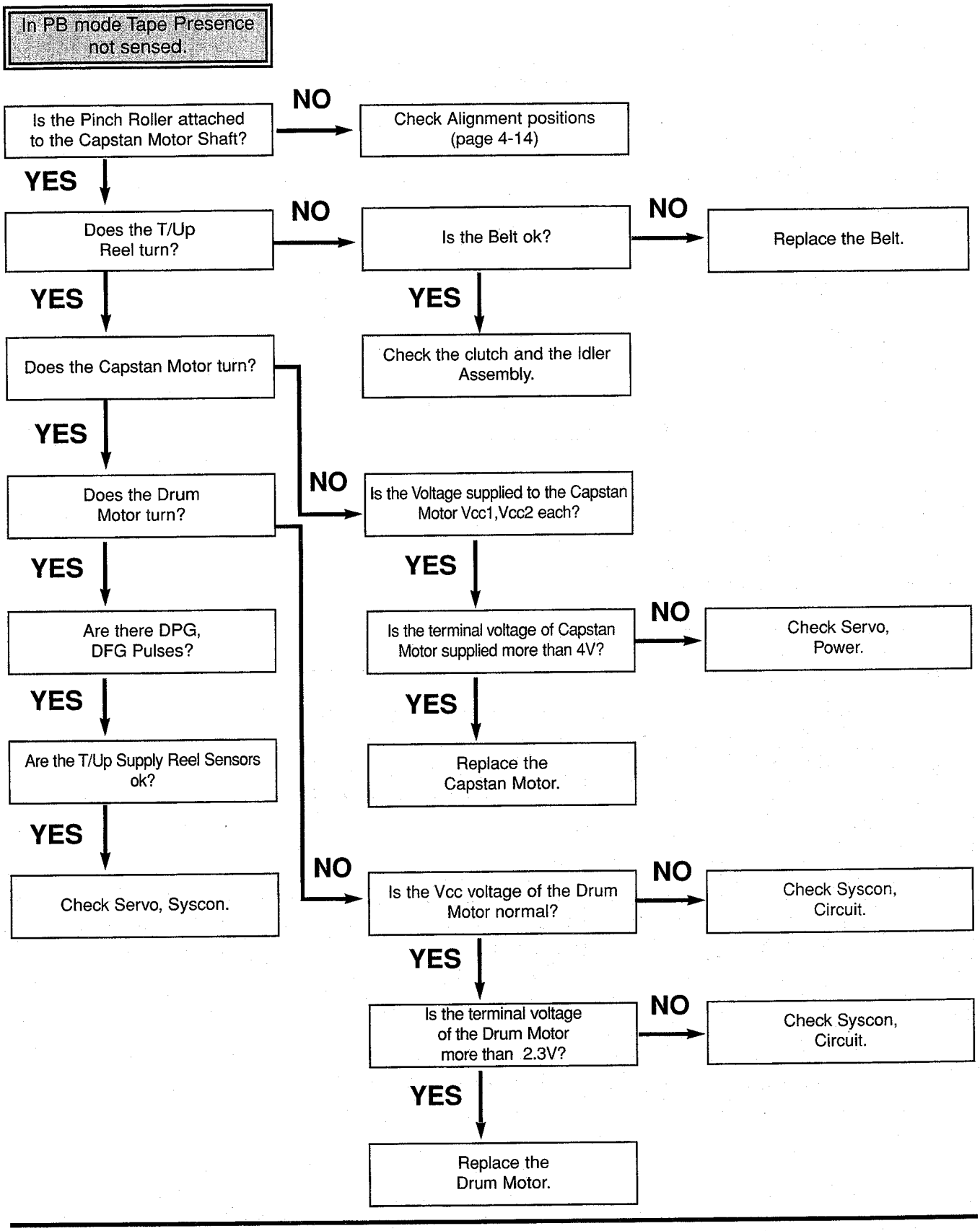


D.



MECHANISM TROUBLESHOOTING GUIDE

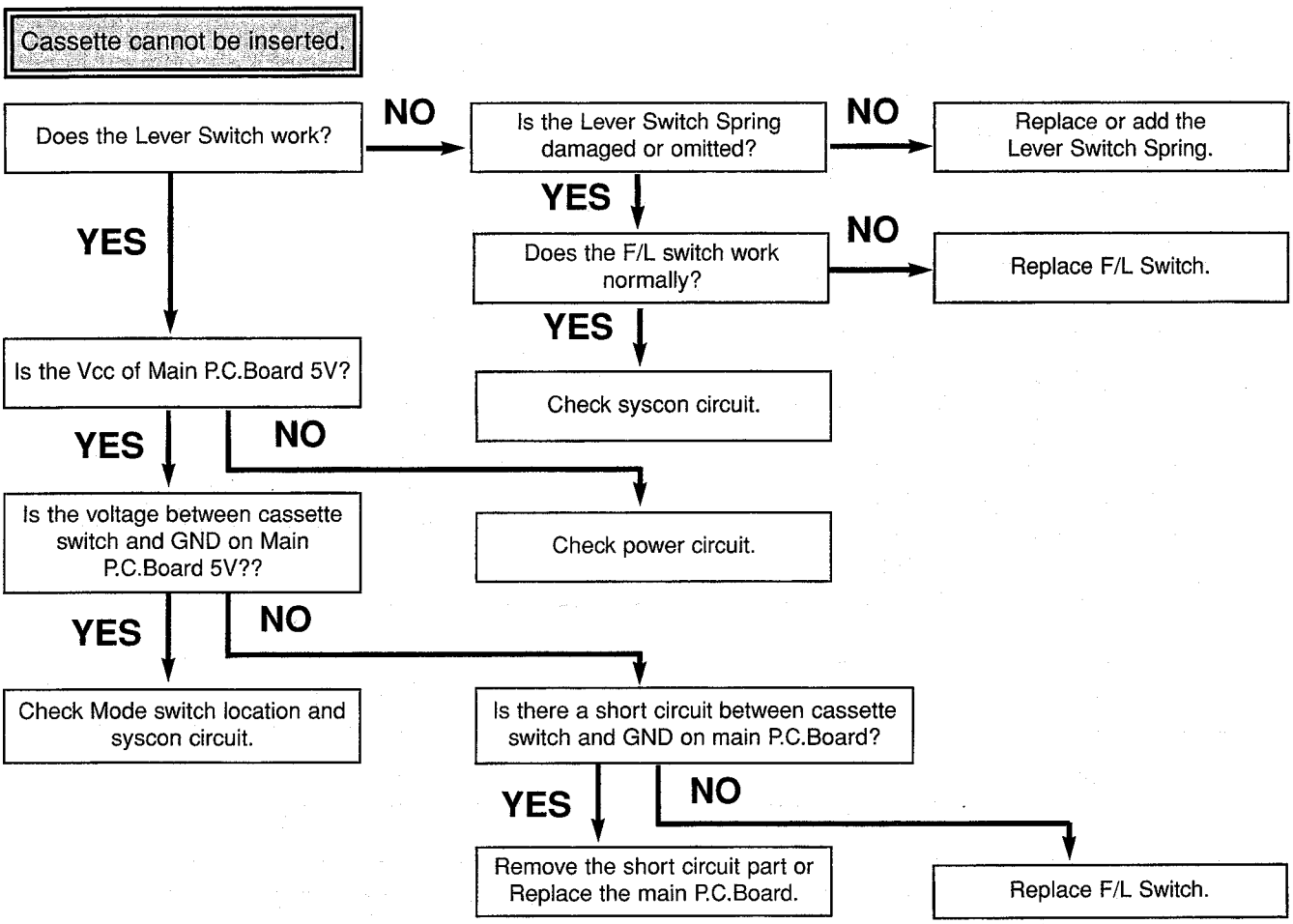
E.



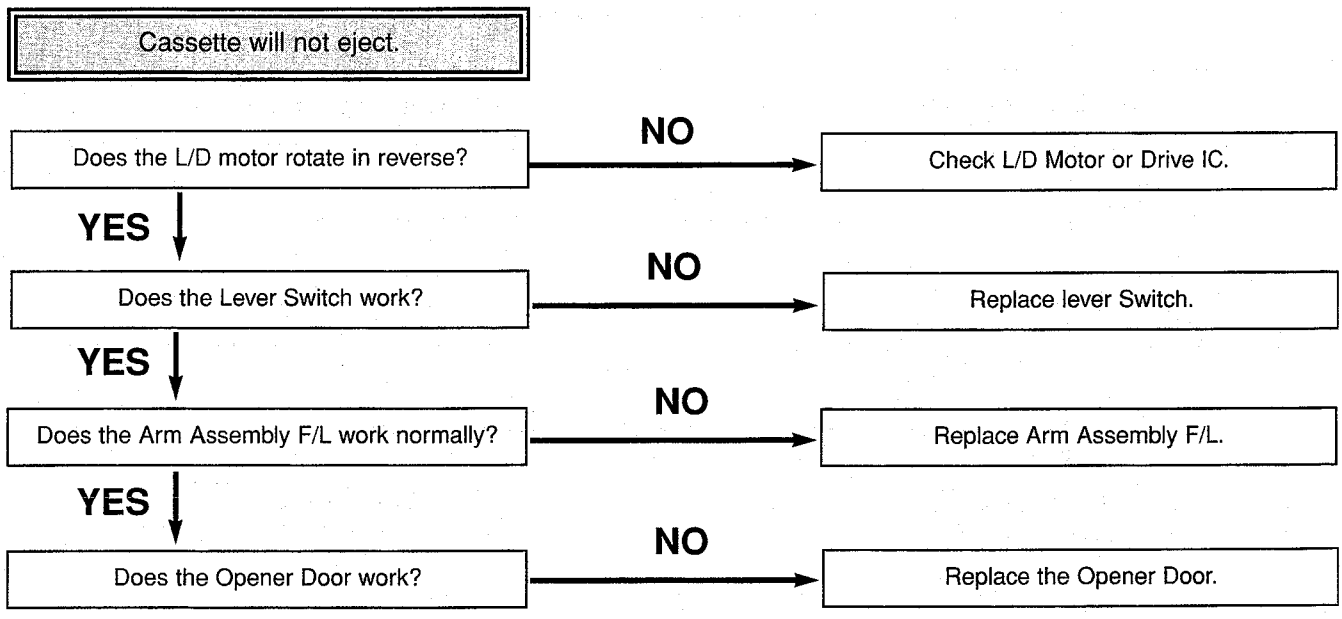
MECHANISM TROUBLESHOOTING GUIDE

2. Front Loading Mechanism

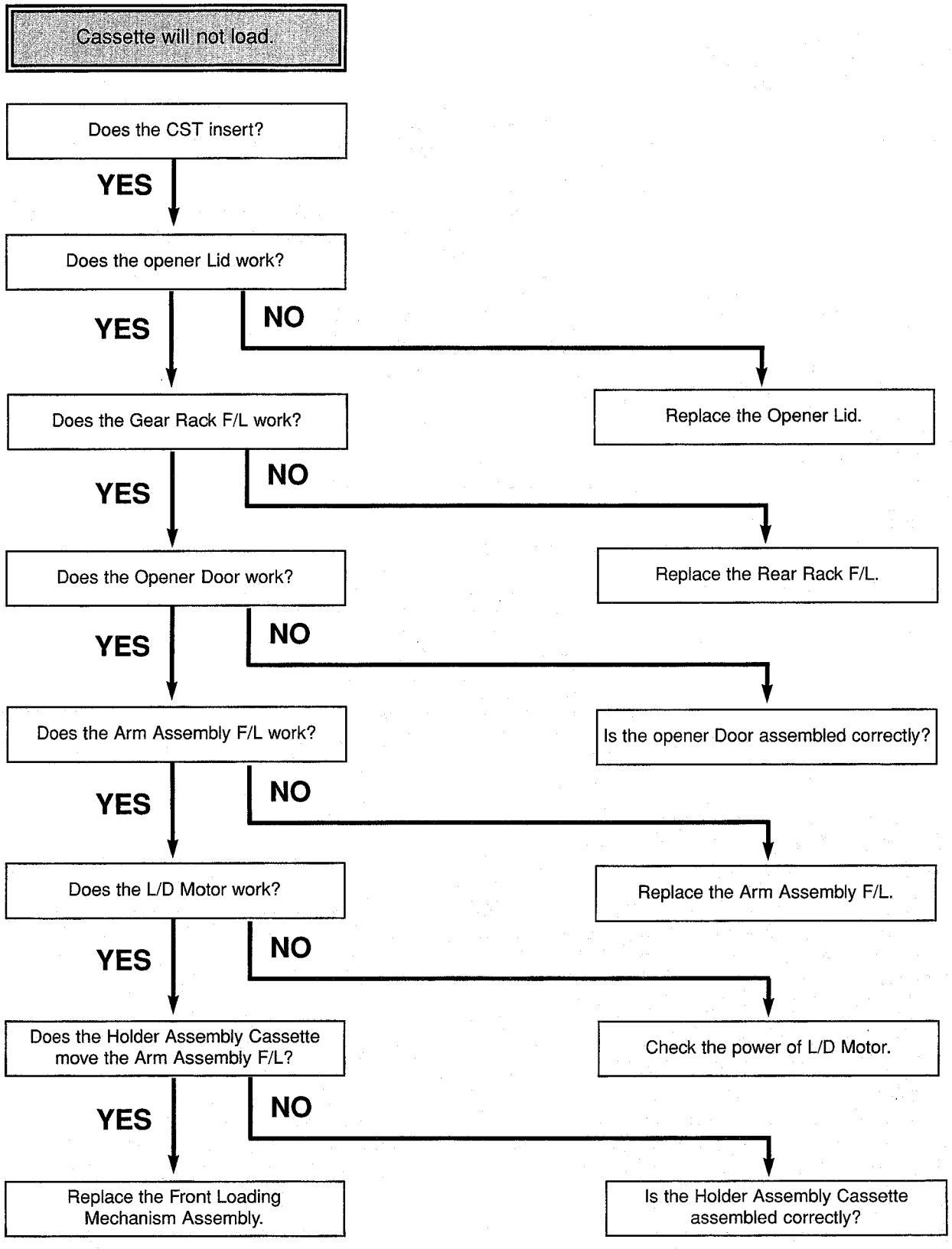
A.


Cassette cannot be inserted.
Does the Lever Switch work?
NO
Is the Lever Switch Spring damaged or omitted?
NO
Replace or add the Lever Switch Spring.
YES
YES
Does the F/L switch work normally?
NO
Replace F/L Switch.
YES
Is the Vcc of Main P.C.Board 5V?
Check syscon circuit.
YES
NO
Is the voltage between cassette switch and GND on Main P.C.Board 5V??
Check power circuit.
YES
NO
Check Mode switch location and syscon circuit.
Is there a short circuit between cassette switch and GND on main P.C.Board?
YES
NO
Remove the short circuit part or Replace the main P.C.Board.
Replace F/L Switch.

B.

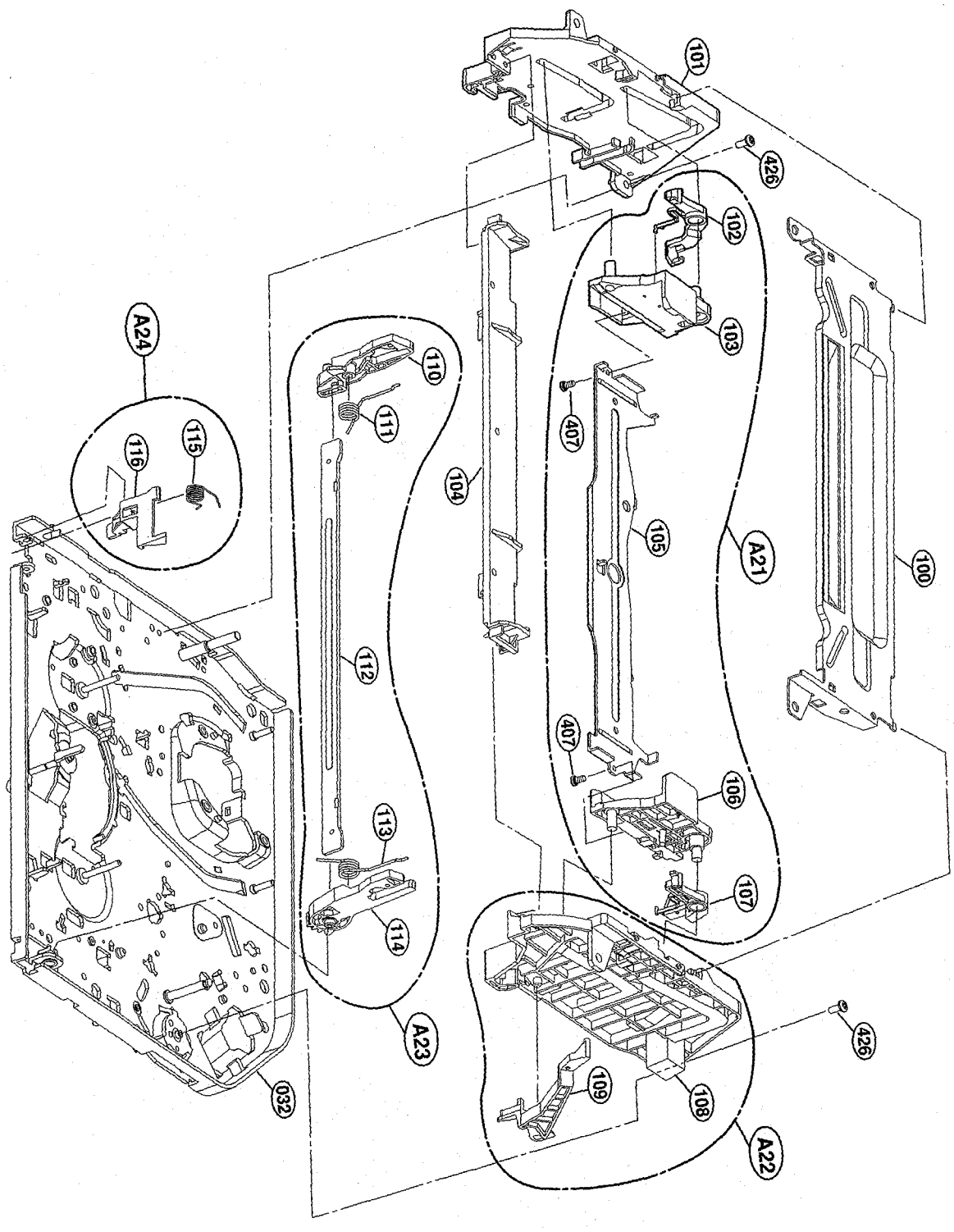


C.


Cassette will not load.
Does the CST insert?
YES
Does the opener Lid work?
YES
NO
Replace the Opener Lid.
Does the Gear Rack F/L work?
YES
NO
Replace the Rear Rack F/L.
Does the Opener Door work?
YES
NO
Is the opener Door assembled correctly?
Does the Arm Assembly F/L work?
YES
NO
Replace the Arm Assembly F/L.
Does the L/D Motor work?
YES
NO
Check the power of L/D Motor.
Does the Holder Assembly Cassette move the Arm Assembly F/L?
YES
NO
Is the Holder Assembly Cassette assembled correctly?
Replace the Front Loading Mechanism Assembly.

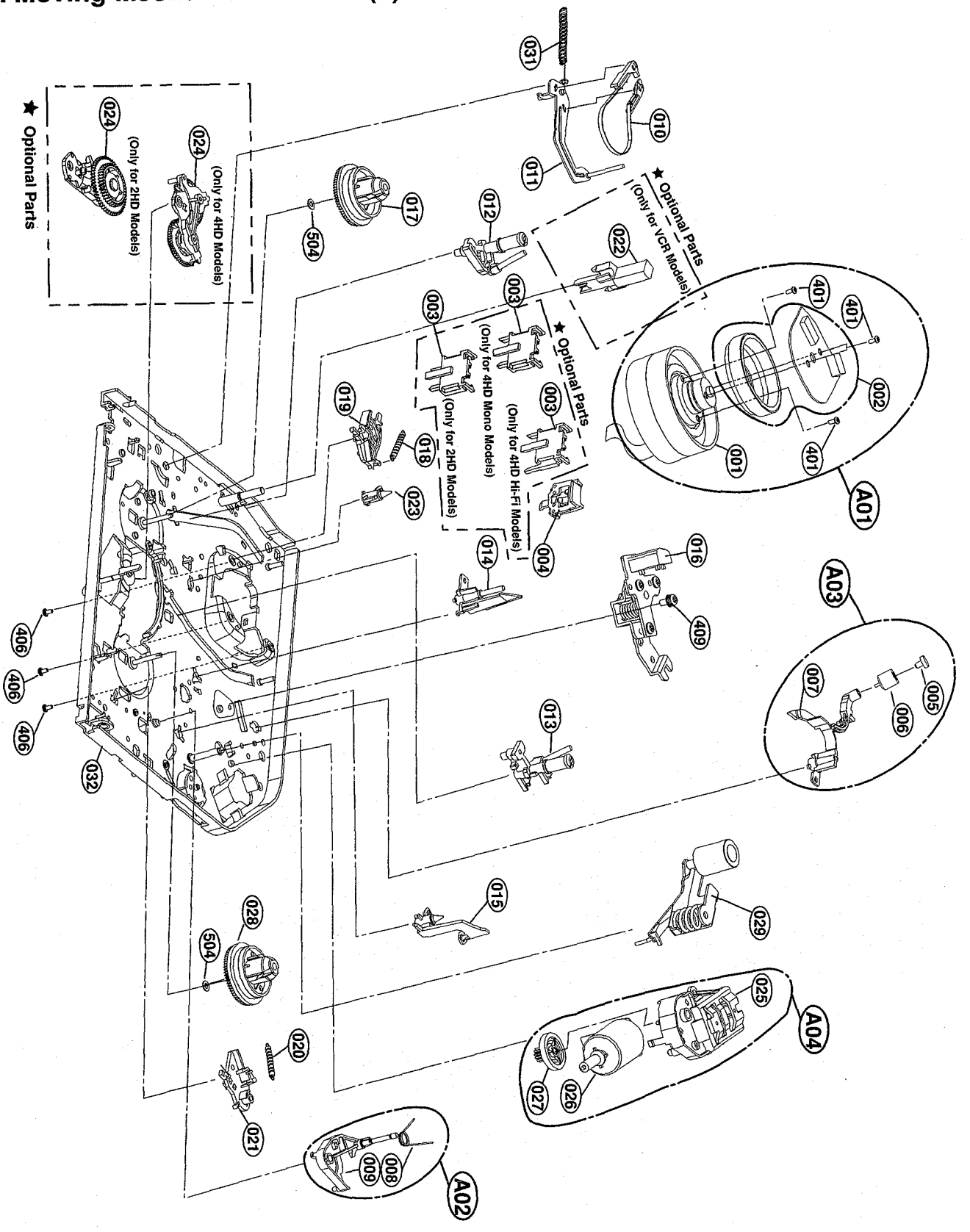
EXPLODED VIEWS

1. Front Loading Mechanism Section



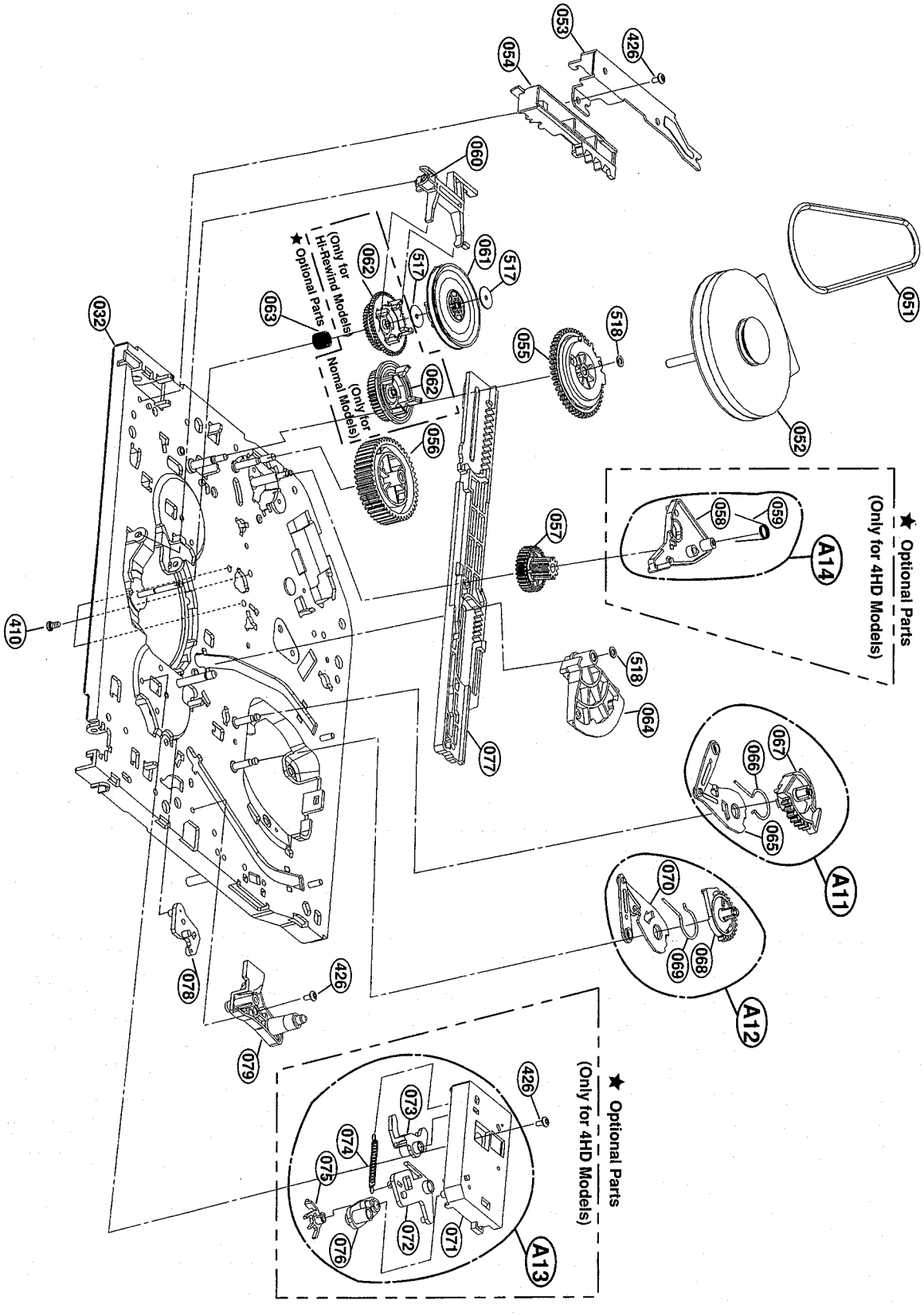
EXPLODED VIEWS

2. Moving Mechanism Section(1)



EXPLODED VIEWS

3. Moving Mechanism Section(2)



MEMO

SECTION 5 REPLACEMENT PARTS LIST

VS-J718EO-DN
VS-J718EO-D

· Mechanical Section

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
				ASSEMBLY PARTS SECTION		
		A00	6721R-0152A	DECK ASSY	D33 (4HF, PAL, JOG)	
		A01	6723R-0103D	DRUM ASSY	D33-6CH PAL (5P6)	
	OR	A01	6723R-D103D	DRUM(CIRC) ASSY	D33-6CH PAL (5P6)	
		A02	4261R-0012A	ARM ASSY!	T/UP	
		A03	4261R-0003A	ARM ASSY!	CLEANER	
		A04	4811R-0011A	BRACKET ASSY	L/D MOTOR	
		A11	4470R-0028A	GEAR	ASSY P3	
		A12	4470R-0026A	GEAR	ASSY P2	
		A13	4811R-0012A	BRACKET ASSY	JOG	
		A14	4421R-0005B	BRAKE ASSY	CAPSTAN	
		A21	4931R-0015A	HOLDER ASSY	CST	
		A22	4811R-0014A	BRACKET ASSY	DOOR	
		A23	4261R-0010A	ARM ASSY!	F/L	
		A24	4510R-0019A	LEVER	ASSY SWITCH	
				PARTS SECTION		
		001	6723R-0106D	DRUM ASSY	SUB D33-6CH PAL (5P6)	
		002	4680RB0004A	MOTOR(MECH)	DRUM F2OEL-81 SANKYO D33	
	OR	002	4680RB0005A	MOTOR(MECH)	DRUM GVD-033A LGEC D33	
		003	4930R-0108A	HOLDER	FPC(6CH)	
		004	5006R-0014A	CAP	FPC	
		005	276-100A	CAP	A CLEANER	NSP
		006	434-242A	ROLLER	CLEANER	NSP
		007	4260R-0009A	ARM	CLEANER	NSP
		008	4970R-0043A	SPRING	T/UP	
		009	4260R-0011A	ARM	T/UP	
		010	4770R-0004A	BAND (MECH)	ASSY TENSION	
		011	4261R-0004A	ARM ASSY!	TENSION	
		012	3041R-0003A	BASE ASSY	P2	
	OR	012	3041R-0003B	BASE ASSY	P2 (D/C)	
		013	3041R-0004A	BASE ASSY	P3	
	OR	013	3041R-0004B	BASE ASSY	P3(D/C)	
		014	3041R-0007A	BASE ASSY	P4	
		015	5870R-0001A	OPENER	LID	
		016	3041R-0005A	BASE ASSY	A/C HEAD(LGEC)	
		017	4408R-0001A	REEL	S	
		018	4970R-0054A	SPRING	SB	
		019	4421R-0003A	BRAKE ASSY	S	
		020	4970R-0053A	SPRING	TB	
		021	4421R-0004A	BRAKE ASSY	T	
		022	523-833B	HEAD	FE D33 . LG C&D/ST	
		023	4980R-0010A	SUPPORTER	CST	
		024	4261R-0009A	ARM ASSY!	IDLER-J	
		025	4810R-0053A	BRACKET	L/D MOTOR	NSP
		026	4681R-0007A	MOTOR ASSY	L/D	NSP
		027	4470R-0025A	GEAR	WHEEL	NSP
		028	4408R-0002A	REEL	T	
		029	4261R-0011A	ARM ASSY!	PINCH (MOLD BEARING)	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		031	4970R-0052A	SPRING	TENSION	
		032	3141R-0002A	CHASSIS ASSY	D33	NSP
		051	4400R-0005A	BELT	CAPSTAN	
	OR	052	4680RA0002A	MOTOR(MECH)	CAPSTAN F2QSB SANKYO D33	
		052	4680RA0003A	MOTOR(MECH)	CAPSTAN GVC-033A LGEC D33	
		053	4974R-0018A	GUIDE	RACK F/L	
		054	4470R-0037A	GEAR	RACK F/L	
		055	4470R-0033A	GEAR	DRIVE	
		056	4470R-0032A	GEAR	CAM	
		057	4470R-0036B	GEAR	CONNECT	
		058	4420R-0005A	BRAKE	CAPSTAN	
		059	4970R-0059A	SPRING	CAPSTAN	
		060	4510R-0025A	LEVER	F/R	
		061	4265R-0002A	CLUTCH ASSY	D33	
		062	4470R-0044A	GEAR	ASSY UP/D	
		063	4970R-0051A	SPRING	UP/D	
		064	4470R-0034A	GEAR	SECTOR	
		065	4510R-0016A	LEVER	P3	NSP
		066	4970R-0046A	SPRING	L/D	NSP
		067	4470R-0029A	GEAR	P3	NSP
		068	4470R-0027A	GEAR	P2	NSP
		069	4970R-0046A	SPRING	L/D	NSP
		070	4510R-0015A	LEVER	P2	NSP
		071	4810R-0054A	BRACKET	JOG	NSP
		072	4510R-0017A	LEVER	JOG	NSP
		073	4510R-0018A	LEVER	SLOW	NSP
		074	4970R-0049A	SPRING	JOG	NSP
		075	4470R-0031A	GEAR	JOG	NSP
		076	4260R-0017A	ARM	JOG	NSP
		077	3300R-0157A	PLATE	SLIDER	
		078	4510R-0022A	LEVER	TENSION	
		079	3040R-0018A	BASE	TENSION	
		100	3301R-0029A	PLATE ASSY	TOP	
		101	4810R-0056A	BRACKET	SIDE(L)	
		102	4510R-0023A	LEVER	STOPPER(L)	NSP
		103	4930R-0099A	HOLDER	SIDE(L)	NSP
		104	4974R-0019A	GUIDE	CST	
		105	4930R-0098A	HOLDER	CST	NSP
		106	4930R-0100A	HOLDER	SIDE(R)	NSP
		107	4510R-0024A	LEVER	STOPPER(R)	NSP
		108	4810R-0055A	BRACKET	SIDE(R)	NSP
		109	5870R-0002A	OPENER	DOOR	NSP
		110	4260R-0018A	ARM	F/L(L)	NSP
		111	4970R-0055A	SPRING	F/L(L)	NSP
		112	3070R-0001A	BODY	F/L	NSP
		113	4970R-0056A	SPRING	F/L(R)	NSP
		114	4260R-0019A	ARM	F/L(R)	NSP
		115	4970R-0050A	SPRING	SWITCH	
		116	4510R-0020A	LEVER	SWITCH	
SCREW						
		401	1MPK0261418	PAN HEAD MACHINE SCREW +,-	+ D2.6 L4.0 MSWR3 / FZY	
		406	1MEC0302018	PAN HEAD MACHINE SCREW S/W +	D 3.0 L 6.0 MSWR3/FZY	
		407	1APF0201718	SCREW TAP TITE(B),PAN HEAD	+ D2.0 L5.0 MSWR3/FZY	

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		409	1MGC0302418	PAN HEAD MACN SCREW S/P WASH +	D 3.0 L 8.0 MSWR3/FZY	
		410	1APF0262218	SCREW TAP TITE(B),PAN HEAD	+ D2.6 L6.8 MSWR3/FZY	
		426	1MPC0302018	PAN HEAD MACHINE SCREW +!	D 3.0 L 6.0 MSWR3/FZY	
NUT, WASHER						
		504	354-001B	WASHER	P.S D3.1XD6X0.5T	
		517	1WZZR-0004B	WASHER	STOPPER	
		518	1WZZR-0004A	WASHER	STOPPER	

· Cabinet & Main Frame Section

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION						
		A43	3721R-F107H	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J718EO-D) M/G	
		A43	3721R-F107P	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J718EO-DN)	
		A43	3721R-F107X	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J718EO-D) D/BK	
		A49	6871R-1241A	PWB(PCB) ASSY	TIMER(AKAI,1PNL)	
PARTS SECTION						
		250	3110R-0128K	CASE	TOP(VS-J718EO-DN) M/G	
		250	3110R-0128R	CASE	TOP(VS-J718EO-D) D/BK	
		260	3210R-0023B	FRAME	MAIN (VII-PJT, 60HR)	NSP
		275	4930R-0133A	HOLDER	DIGITRON(UP-MONO)	
		280	3720R-F081A	PANEL	FRONT (VS-J718EO-DN)	NSP
		280	3720R-F081H	PANEL	FRONT (VS-J718EO-D) D/BK	NSP
		283	3580R-0038H	DOOR	CST(VS-J718EO-D)	
		283	3580R-0038P	DOOR	CST(VS-J718EO-DN)	
		284	442-681A	SPRING	DOOR	
		300	6410RCHV02A	POWER CORD	H03VVH2-F2 X 0.75MM FILTER VOL	
		320	3721R-D023E	PANEL ASSY,DISTRIBUTOR[NORMAL	AF-PAL HI-FI-2SCART-PREMERE	
		323	3111R-0089B	CASE ASSY	PRE-AMP (PBSB-SH)	
		330	3550R-0210A	COVER	BOTTOM(LARGE)	
SCREW						
		452	353-051A	SCREW	SPECIAL	
		457	353-051E	SCREW	SPECIAL (3X12)	
		462	353-136A	SCREW	SPECIAL(FBK) (353S353A)	

· Packing Accessory Section

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	3835RP0037Q	INSTRUCTION ASSY	(VS-J718EO-D) :GERMANY	
		801	3835RP0037R	INSTRUCTION ASSY	(VS-J718EO-DN) :FINLAND	
		801	3835RP0037S	INSTRUCTION ASSY	(VS-J718EO-DN) :NETHERLAND	
		802	3890R-H392A	BOX	(VS-J718EO-DN)FINLA/NETHERLAND	
		802	3890R-H400A	BOX	(VS-J718EO-D N) :GERMANY	
		802	3890R-H400B	BOX	(VS-J718EO-D N) :GERMANY	
		803	3920R-0075A	PACKING	AK219I 0.02 1 EPS 1 1 1	
	OR	804	292-053A	BAG	SOFT(VCP)	NSP
		804	3858R-0006A	SHEET	ROLL(W630XL300MX0.5T)	NSP
		808	534-002C	BATTERY	1.5V AAM UM-3 LOL 1PAIR	
		810	861-505J	CABLE SET ASSY	RF-CABLE ASSY PAL FTZ	

· Remote Control Section

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	6711R2P017A	REMOTE CONTROLLER ASSY	(A1:RC-Y171E RC-Z122E)	

· Electrical Section

RUN DATE : 99.06.18

CAUTION: The * marks in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. Before replacing any of these components, read carefully the SAFETY PRECAUTIONS and SERVICING PRECAUTIONS in the manual. Do not degrade the safety of the unit through improper servicing.

Tolerance

Symbol	C	J	K	M	N	Z	P	A
%	±2	±5	±10	±20	±30	+80 -20	+100 -10	+100 -10

CC, CJ, CK: Capacitor, Ceramic
CE: Capacitor, Electrolytic
CQ: Capacitor, Polyester

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
			CAPACITOR	
		C101	624-088H	PCX2 0.1UF/275VAC R T/P
		C102	624-088H	PCX2 0.1UF/275VAC R T/P
		C103	624-082F	CE 68UF/400V SHLVN
		C105	0CQ1031Y519	0.01UF D 630V K PE NI TP
		C106	624-087B	HIGH-VOL 100P/1KV SMPS SAMHWA
		C109	0CE336BH638	33UF KME 25V M FM5 TP5
		C111	0CN223AK948	0.022UF 50V Z F TA26 S
		C112	0CG3320U630	3300 PF 400V M E R(NK,AD,SD)
		C113	0CG2210U610	220 PF 400V M B R(NK,AD,SD)
		C114	0CQ4732K409	0.047UF S 50V J PE TP
		C115	624-085D	CE 47UF/50V KME (SMPS)
		C116	0CE108BF638	1000UF KME TYPE 16V M FM5 TP 5
		C117	0CE477CF638	470UF SHL TYPE 16V M FM5 TP 5
		C118	0CE2276D638	220M SMS 10V M FM5 TP(5)
		C119	624-085D	CE 47UF/50V KME (SMPS)
		C120	0CE477BH638	470UF KME 25V M FM5 TP5
		C121	624-082G	CE 470UF/25V SHL(10*12.5)T/P
		C122	0CN223AK948	0.022UF 50V Z F TA26 S
		C124	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C151	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C152	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C153	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C155	0CN1040K948	0.1UF 50V Z F TA26 D
		C156	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C157	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C159	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C218	0CN1040K948	0.1UF 50V Z F TA26 D
		C220	0CN223AK948	0.022UF 50V Z F TA26 S
		C301	0CN1040K948	0.1UF 50V Z F TA26 D
		C303	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C304	0CE2274C638	220M SRA 6.3V M FM5 TP(5)
		C305	0CN1040K948	0.1UF 50V Z F TA26 D
		C306	0CN1030F678	0.01M 16V M Y TA26
		C307	0CX2700K408	27P 50V J SL TA26
		C309	0CN3310K518	330P 50V K B TA26
		C310	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C311	0CN1810K518	180P 50V K B TA26
		C312	0CX2200K408	22P 50V J SL TP26
		C313	0CN1010K418	100PF 50V J B TA26
		C314	0CN1040K948	0.1UF 50V Z F TA26 D
		C315	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C316	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C317	0CN1030F678	0.01M 16V M Y TA26

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		C318	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
		C319	0CN1040K948	0.1UF 50V Z F TA26 D
		C320	0CN1050K948	1UF 50V Z F TA26 D
		C322	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C323	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C324	0CN1040K948	0.1UF 50V Z F TA26 D
		C325	0CN1050K948	1UF 50V Z F TA26 D
		C326	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C327	0CE1063F638	10M SRE/SE 16V M FM5 TP(5)
		C328	0CN223AK948	0.022UF 50V Z F TA26 S
		C329	0CN223AK948	0.022UF 50V Z F TA26 S
		C330	0CN1030F678	0.01M 16V M Y TA26
		C331	0CE2274C638	220M SRA 6.3V M FM5 TP(5)
		C332	0CN1030F678	0.01M 16V M Y TA26
		C333	0CN223AK948	0.022UF 50V Z F TA26 S
		C334	0CN223AK948	0.022UF 50V Z F TA26 S
		C335	0CN1040K948	0.1UF 50V Z F TA26 D
		C336	0CN1030F678	0.01M 16V M Y TA26
		C337	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C338	0CN223AK948	0.022UF 50V Z F TA26 S
		C339	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C340	0CN3330K518	0.033UF 50V K B TA26
		C341	0CN223AK948	0.022UF 50V Z F TA26 S
		C342	0CN1030F678	0.01M 16V M Y TA26
		C343	0CN4730K948	0.047M 50V Z F TA26
		C344	0CN223AK948	0.022UF 50V Z F TA26 S
		C346	0CE2274C638	220M SRA 6.3V M FM5 TP(5)
		C348	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C350	0CN1040K948	0.1UF 50V Z F TA26 D
		C351	0CN1040K948	0.1UF 50V Z F TA26 D
		C352	0CN1040K948	0.1UF 50V Z F TA26 D
		C353	0CX2700K408	27P 50V J SL TA26
		C354	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C355	0CN1030F678	0.01M 16V M Y TA26
		C356	0CN1040K948	0.1UF 50V Z F TA26 D
		C358	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C363	0CX3900K408	39P 50V J SL TA26
		C367	0CN4730K948	0.047M 50V Z F TA26
		C368	0CN1020K518	1000P 50V K B TA26
		C369	0CN223AK948	0.022UF 50V Z F TA26 S
		C370	0CN1810K518	180P 50V K B TA26
		C372	0CN8200K518	82PF 50V K B TA26
		C374	0CN223AK948	0.022UF 50V Z F TA26 S
		C375	0CN1040K948	0.1UF 50V Z F TA26 D
		C376	0CN1040K948	0.1UF 50V Z F TA26 D

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		C3A1	0CN223AK948	0.022UF 50V Z F TA26 S
		C3B1	0CN3330K518	0.033UF 50V K B TA26
		C401	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C402	0CN223AK948	0.022UF 50V Z F TA26 S
		C403	0CN1040K948	0.1UF 50V Z F TA26 D
		C405	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C406	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C408	0CQ1532K409	0.015UF S 50V J PE TP
		C410	0CN1040K948	0.1UF 50V Z F TA26 D
		C412	0CN1040K948	0.1UF 50V Z F TA26 D
		C413	0CN1030F678	0.01M 16V M Y TA26
		C414	0CQ1032K409	0.01UF S 50V J PE TP
		C415	0CE2264F638	22M SRA 16V M FM5 TP(5)
		C416	0CN2220F668	2200P 16V M X TA26
		C417	0CN1220F668	1200P 16V M X TA26
		C418	0CQ1532K409	0.015UF S 50V J PE TP
		C419	0CQ1032K409	0.01UF S 50V J PE TP
		C420	0CE4765K618	47UF SR,SV 50V M FL TP 5
		C421	0CQ2232L559	0.022UF S 63V K PP NI TP5
		C423	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C424	0CN1040K948	0.1UF 50V Z F TA26 D
		C431	0CN1030F678	0.01M 16V M Y TA26
		C466	0CE3354K638	3.3M SRA 50V M FM5 TP(5)
		C467	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C500	624-074A	SUPER CAP 0.047F/5.5V T/P S/S
		C501	0CN1040K948	0.1UF 50V Z F TA26 D
		C502	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C503	0CN1040K948	0.1UF 50V Z F TA26 D
		C504	0CE2274C638	220M SRA 6.3V M FM5 TP(5)
		C505	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C506	0CN223AK948	0.022UF 50V Z F TA26 S
		C507	0CN1040K948	0.1UF 50V Z F TA26 D
		C508	0CN1040K948	0.1UF 50V Z F TA26 D
		C509	0CN223AK948	0.022UF 50V Z F TA26 S
		C510	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C512	0CN1810K518	180P 50V K B TA26
		C513	0CN1040K948	0.1UF 50V Z F TA26 D
		C514	0CC1800K415	18P 50V J NP0 TS
		C515	0CC1800K415	18P 50V J NP0 TS
		C516	0CN223AK948	0.022UF 50V Z F TA26 S
		C518	0CC3300K415	33P 50V J NP0 TP
		C519	0CC3900K415	39P 50V J NPO TP
		C520	0CN1020K518	1000P 50V K B TA26
		C521	0CN223AK948	0.022UF 50V Z F TA26 S
		C522	0CN1030F678	0.01M 16V M Y TA26
		C524	0CE3364F638	33M SRA 16V M FM5 TP(5)
		C525	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C526	0CE4764H638	47M SRA 25V M FM5 TP(5)
		C527	0CN1810K518	180P 50V K B TA26
		C528	0CN1030F678	0.01M 16V M Y TA26
		C529	0CN1040K948	0.1UF 50V Z F TA26 D
		C530	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C532	0CN223AK948	0.022UF 50V Z F TA26 S
		C533	0CN1020K518	1000P 50V K B TA26
		C534	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C535	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C536	0CN1030F678	0.01M 16V M Y TA26
		C537	0CN1030F678	0.01M 16V M Y TA26
		C540	0CQ3332K409	0.033UF S 50V J PE TP
		C541	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C542	0CN6810K518	680P 50V K B TA26
		C543	0CN2220F668	2200P 16V M X TA26

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		C544	0CQ4732K409	0.047UF S 50V J PE TP
		C545	0CN1040K948	0.1UF 50V Z F TA26 D
		C546	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C551	0CQ3332K409	0.033UF S 50V J PE TP
		C552	0CN1030F678	0.01M 16V M Y TA26
		C561	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C564	0CN3310K518	330P 50V K B TA26
		C567	0CN1020K518	1000P 50V K B TA26
		C570	0CC1800K415	18P 50V J NP0 TS
		C571	0CC1800K415	18P 50V J NP0 TS
		C574	0CN1020K518	1000P 50V K B TA26
		C575	0CN1020K518	1000P 50V K B TA26
		C576	0CC1500K415	15P 50V J NP0 TS
		C577	0CC1200K415	12P 50V J NP0 TS
		C578	0CN1220F668	1200P 16V M X TA26
		C581	0CN1030F678	0.01M 16V M Y TA26
		C582	0CN1030F678	0.01M 16V M Y TA26
		C588	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C596	0CN223AK948	0.022UF 50V Z F TA26 S
		C5F4	0CN1040K948	0.1UF 50V Z F TA26 D
		C5F7	0CN1050K948	1UF 50V Z F TA26 D
		C5F8	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C5P1	0CN1030F678	0.01M 16V M Y TA26
		C5P2	0CN1030F678	0.01M 16V M Y TA26
		C5S1	0CX4300K408	43P 50V J SL TA26
		C5S2	0CN223AK948	0.022UF 50V Z F TA26 S
		C5X2	0CN1030F678	0.01M 16V M Y TA26
		C701	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C702	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C703	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C704	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C705	0CN1030F678	0.01M 16V M Y TA26
		C706	0CE477CF638	470UF SHL TYPE 16V M FM5 TP 5
		C707	0CN1030F678	0.01M 16V M Y TA26
		C710	0CX4300K408	43P 50V J SL TA26
		C712	0CX5R60K508	5.6PF 50V K SL TA26
		C752	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C753	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C754	0CN1030F678	0.01M 16V M Y TA26
		C755	0CQ1032K409	0.01UF S 50V J PE TP
		C756	0CQ1032K409	0.01UF S 50V J PE TP
		C757	0CQ1032K409	0.01UF S 50V J PE TP
		C758	0CQ1032K409	0.01UF S 50V J PE TP
		C759	0CN1030F678	0.01M 16V M Y TA26
		C760	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C761	0CE3354K638	3.3M SRA 50V M FM5 TP(5)
		C762	0CN1040K948	0.1UF 50V Z F TA26 D
		C763	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C764	0CN1040K948	0.1UF 50V Z F TA26 D
		C765	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C766	0CN1030F678	0.01M 16V M Y TA26
		C767	0CX5600K408	56P 50V J SL TA26
		C768	0CX5600K408	56P 50V J SL TA26
		C769	0CC0300K015	3P 50V C NP0 TS
		C770	0CC0300K015	3P 50V C NP0 TS
		C771	0CQ3921N409	0.0039U 100V J POLY TP
		C772	0CQ3921N409	0.0039U 100V J POLY TP
		C773	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C774	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C775	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C776	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C7M1	0CN1010K418	100PF 50V J B TA26

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		C7M2	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C7M3	0CX4300K408	43P 50V J SL TA26
		C7M8	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C7M9	0CN1030F678	0.01M 16V M Y TA26
		C7V1	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C7V2	0CN1050K948	1UF 50V Z F TA26 D
		C7V3	0CC1200K415	12P 50V J NP0 TS
		C7V4	0CC1200K415	12P 50V J NP0 TS
		C7V5	0CQ5632K409	0.0560UF S 50V J PE TP
		C7V6	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C7V7	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C7V8	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C801	0CN1040K948	0.1UF 50V Z F TA26 D
		C804	0CN1040K948	0.1UF 50V Z F TA26 D
		C805	0CN1040K948	0.1UF 50V Z F TA26 D
		C806	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C807	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C808	0CN1040K948	0.1UF 50V Z F TA26 D
		C809	0CN1040K948	0.1UF 50V Z F TA26 D
		C810	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C811	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C813	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C814	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C815	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C816	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C817	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C818	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C819	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C820	0CQ6822K409	6800PF S 50V J PE TP
		C821	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C822	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C823	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C824	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C825	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C826	0CQ6822K409	6800PF S 50V J PE TP
		C827	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C828	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C830	0CN1040K948	0.1UF 50V Z F TA26 D
		C831	0CN1030F678	0.01M 16V M Y TA26
		C832	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C835	0CE4744K638	0.47M SRA 50V M FM5 TP(5)
		C901	0CN1020K518	1000P 50V K B TA26
		C902	0CE477CF638	470UF SHL TYPE 16V M FM5 TP 5
		C903	0CN1020K518	1000P 50V K B TA26
		C904	0CN1020K518	1000P 50V K B TA26
		C905	0CX1000K408	10P 50V J SL TA26
		C906	0CX1000K408	10P 50V J SL TA26
		C908	0CN1020K518	1000P 50V K B TA26
		C911	0CN1020K518	1000P 50V K B TA26
		C912	0CE477CF638	470UF SHL TYPE 16V M FM5 TP 5
		C918	0CN1020K518	1000P 50V K B TA26
		C923	0CN1020K518	1000P 50V K B TA26
		C924	0CN1020K518	1000P 50V K B TA26
		C941	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C942	0CE1054K636	1.0U SRA 50V M FM5 BP TP(D)
		C948	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C949	0CN1040K948	0.1UF 50V Z F TA26 D
		C950	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C951	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C953	0CN8200K518	82PF 50V K B TA26
		C955	0CX4300K408	43P 50V J SL TA26
		C9F1	0CN1020K518	1000P 50V K B TA26
		C9F2	0CN1020K518	1000P 50V K B TA26
		CF01	0CN1040K948	0.1UF 50V Z F TA26 D
		CF02	0CN4720F668	4700P 16V M X TA26
		CF03	0CN1020K518	1000P 50V K B TA26
		CF04	0CN1020K518	1000P 50V K B TA26
		CF05	0CN1020K518	1000P 50V K B TA26
		CF06	0CN1040K948	0.1UF 50V Z F TA26 D
		CF07	0CN1040K948	0.1UF 50V Z F TA26 D
		ZD902	0CX2200K408	22P 50V J SL TP26
DIODE				
		BD101	0DD160000DA	S1WBA60(1A 600V) SHIDENKEN
	OR	D102	0DD010009CA	EG01CW(R-FORM 5MM) TP SANKEN
		D102	0DD221009AA	ERA22-10 KFLB,TP ,R T/P,FUJI
		D104	0DD010009AC	EU01W(R-FORM) TP SANKEN
		D105	0DD010009AC	EU01W(R-FORM) TP SANKEN
		D106	0DR810040BA	ERC81-004L22 BK FUJI DO201AD 4
		D107	0DR180209AA	ERA18-02KFRB TP FUJI DO204AL 2
		D108	0DD010009AC	EU01W(R-FORM) TP SANKEN
		D109	0DD400000AD	RU4YXLF(015-305) M20 SANKEN
		D151	0DD133009AA	1SS133 DETECT,SW TP
	OR	D152	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D152	0DR104009AB	RL104 R. TP GULF SEMICONDUCTOR
	OR	D154	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D154	0DR104009AB	RL104 R. TP GULF SEMICONDUCTOR
	OR	D155	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D155	0DR104009AB	RL104 R. TP GULF SEMICONDUCTOR
		D301	0DD133009AA	1SS133 DETECT,SW TP
		D302	0DD133009AA	1SS133 DETECT,SW TP
		D502	0DD133009AA	1SS133 DETECT,SW TP
		D509	0DD133009AA	1SS133 DETECT,SW TP
		D751	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		DJ03	0DD133009AA	1SS133 DETECT,SW TP
		DJ06	0DD133009AA	1SS133 DETECT,SW TP
		DJ09	0DD133009AA	1SS133 DETECT,SW(VS-J718EO-DN)
		DJ10	0DD133009AA	1SS133 DETECT,SW TP
		DJ19	0DD133009AA	1SS133 DETECT,SW TP
		DJ22	0DD133009AA	1SS133 DETECT,SW TP
LEVEL METER				
		DIG5F1	6302R1P003B	7-MT-233GK AKAI MONO FUTABA PA
FUSE				
	OR	F101	585-011C	T 1.6A 250V S506
		F101	585-011T	1600MA 250 V 5.2X20 CY/GL SEMK
FILTER				
		L102	616-145H	SHT LFS2020V4-04350
IC				
		F103	0IRH100000B	ICP-N10 T104 TP IC DETACT
		IC101	0ISK615300A	STR-G6153T 5PIN FM CUT BK PWM
		IC103	0IKE431000A	KIA431 3 PIN TP
	OR	IC103	0ISS431000A	KA431AZ (LM431AZ)
		IC301	0ISA715910A	LA71591M 100QFP BK AVCP 1CHIP
		IC501	0IGS397766A	GMS3977RA-A66F 100QFP BK MICOM
		IC502	0ISS308200A	KA3082 10-SIP BK MOTOR DRIVE
		IC503	0IAL241600B	AT24C16-10PC 8D EEPROM 16K
		IC504	0IKE703100A	KIA7031P 3P 3.1V RESET(TAPING)

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	OR	IC504	0ISS753100A	KA7531Z TO-92 TP 3.1V RESET
		IC505	0IKE704200B	KIA7042P 3P 4.2V RESET(TAPING)
	OR	IC505	0ISS754200A	KA7542Z RESET TO92 TP 4.2V
		IC5F1	0ISA866024A	LC866024W-5M41 64QFP BK MICOM
		IC751	0IIT341700A	MSP3417D 52PSDIP BK NICAM+A2 P
		IC7V1	0ISA747930A	LC74793/JM DIP24S BK VPS+PDC
		IC801	0IPH960500A	TDA9605H QFP44 BK HIFI AMP+HIF
		IC901	0IRH763500A	BH7635S DIP24 BK CANAL S/W
JACK				
		JK902	572-036H	BJP 03-01-G BAEEUN 2 ANGLE WH
		JK9F3	572-075D	BJP-202L (YELLOW)
		JK9F4	572-075C	BJP-202L (WHITE)
		JK9F5	572-075B	BJP-202L (RED)
COIL				
		BC101	636-004C	BEAD CORE BFS3550R2FD8,R T/P
		BC102	636-004C	BEAD CORE BFS3550R2FD8,R T/P
		L103	633-088G	CHOCK(22MH) TP 5MM
		L104	633-088G	CHOCK(22MH) TP 5MM
		L105	0LA1000K018	100M K 2.3X3.4 L5 TP
		L301	0LR0102K0P5	LF7.5N OEL 10UH 10% TP 4.8X4.0
		L302	0LA0562K018	56M K 2.3X3.4 L5 TP
		L303	0LA0332K018	33M K 2.3X3.4 L5 TP
		L304	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L306	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L307	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L308	0LA0122K018	12M K 2.3X3.4 L5 TP
		L309	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L401	0LA0821K018	8.2M K 2.3X3.4 L5 TP
		L402	0LR6801J045	6800U J 6X7 L5 TP
		L405	0LR0102K0P5	LF7.5N OEL 10UH 10% TP 4.8X4.0
		L502	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L503	0LA1000K018	100M K 2.3X3.4 L5 TP
		L505	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L506	635-027C	EL0405RA SKI150G-3 K-TDK 15UH
		L5S1	0LA0332K018	33M K 2.3X3.4 L5 TP
		L5W1	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L701	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L702	0LR0102K0P5	LF7.5N OEL 10UH 10% TP 4.8X4.0
		L703	0LR0102K0P5	LF7.5N OEL 10UH 10% TP 4.8X4.0
		L704	0LA0821K018	8.2M K 2.3X3.4 L5 TP
		L751	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L752	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L753	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L754	0LR6801J045	6800U J 6X7 L5 TP
		L755	0LR6801J045	6800U J 6X7 L5 TP
		L7M1	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L7V1	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L801	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L802	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L901	0LA1000K018	100M K 2.3X3.4 L5 TP
		L902	0LA1000K018	100M K 2.3X3.4 L5 TP
		L904	0LA1000K018	100M K 2.3X3.4 L5 TP
		L905	636-004C	BEAD CORE BFS3550R2FD8,R T/P
		L906	0LA1000K018	100M K 2.3X3.4 L5 TP
		L907	636-004C	BEAD CORE BFS3550R2FD8,R T/P
		L908	636-004C	BEAD CORE BFS3550R2FD8.R T/P
		L911	0LA1000K018	100M K 2.3X3.4 L5 TP
		L912	0LA1000K018	100M K 2.3X3.4 L5 TP
		L914	0LA1000K018	100M K 2.3X3.4 L5 TP

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		L916	0LA1000K018	100M K 2.3X3.4 L5 TP
		L924	0LA1000K018	100M K 2.3X3.4 L5 TP
		L926	0LA1000K018	100M K 2.3X3.4 L5 TP
		L941	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L9F4	0LA1000K018	100M K 2.3X3.4 L5 TP
		L9F5	0LA1000K018	100M K 2.3X3.4 L5 TP
		TL401	633-032K	BIAC OSC,1CHIP 5V(KS-75M)
LED				
		LD5P1	0DL100000BB	LTE-16KEE BK LITEON RED
CIRCUIT BOARD ASSEMBLY				
		PBM00	6871R-1236D	MAIN (VS-J718EO-D)
		PBM00	6871R-1236H	MAIN (VS-J718EO-DN)
TRANSFORMER				
		T101	642-023M	S/W TRANS EER2828 WIDE X-PJT
TRANSISTOR				
		Q151	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
		Q152	0TR320309AA	KTC3203-Y (KTC2120) TP KEC 10P
		Q153	0TR280400AA	KTC2804-Y BK KEC TO126
		Q154	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q155	0TR103009AF	KRA103M-TP (KRA2203) KEC
		Q156	0TR320309AA	KTC3203-Y (KTC2120) TP KEC 10P
		Q157	0TR103009AF	KRA103M-TP (KRA2203) KEC
		Q158	0TR126809BA	KTA1268-BL TP KEC
	OR	Q158	0TR709009AE	KSA709C-Y TP SAMSUNG T0-92
		Q159	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC
		Q160	0TR101009AF	KRC101M(TO92M),4.7-4.7,KEC
		Q161	0TR101009AF	KRC101M(TO92M),4.7-4.7,KEC
		Q162	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC
		Q164	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC
		Q165	0TR101009AF	KRC101M(TO92M),4.7-4.7,KEC
		Q301	0TR319909AF	KTC3199-BL MINI TP KEC
		Q302	0TR319909AF	KTC3199-BL MINI TP KEC
		Q303	0TR126709AC	KTA1267-GR MINI TP KEC
		Q304	0TR319909AF	KTC3199-BL MINI TP KEC
		Q305	0TR126709AC	KTA1267-GR MINI TP KEC
		Q3A1	0TR319909AF	KTC3199-BL MINI TP KEC
		Q3A2	0TR319909AF	KTC3199-BL MINI TP KEC
		Q401	0TR126709AC	KTA1267-GR MINI TP KEC
		Q402	0TR126709AC	KTA1267-GR MINI TP KEC
		Q403	0TR319909AF	KTC3199-BL MINI TP KEC
		Q404	0TR319909AF	KTC3199-BL MINI TP KEC
		Q405	0TR320309AA	KTC3203-Y (KTC2120) TP KEC 10P
		Q501	0TR319909AF	KTC3199-BL MINI TP KEC
		Q502	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q503	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC
		Q514	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q515	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q5A1	0TR319909AF	KTC3199-BL MINI TP KEC
		Q5P1	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q5S2	0TR319909AF	KTC3199-BL MINI TP KEC
		Q701	0TR126709AC	KTA1267-GR MINI TP KEC
		Q751	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q752	0TR126709AC	KTA1267-GR MINI TP KEC
		Q753	0TR319909AF	KTC3199-BL MINI TP KEC
		Q754	0TR319909AF	KTC3199-BL MINI TP KEC
		QF01	0TR319909AF	KTC3199-BL MINI TP KEC

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		QF02	0TR126709AC	KTA1267-GR MINI TP KEC
		QF03	0TR103009AE	KRC103M-TP (KRC1203) KEC
			RESISTOR	
		C302	0RD2202F608	22K 1/6W 5 TA26
		FR02	0RF0471Q619	4.7 OHM 1/4 W (3.4) 5% TR
		R101	614-007R	2.7 OHM 2 W 5% TR RWR
		R102	0RS1003K619	100K OHM 2 W 5% TR
		R103	0RD0821F608	8.2 1/6W 5 TA26
		R104	0RS5602K619	56KOHM 2 W 5% TR
		R109	0RS0350K619	0.35 OHM 2 W 5% TR
		R114	0RD1003F608	100K 1/6W 5 TA26
		R116	0RD3300F608	330 1/6W 5 TA26
		R117	0RD2201F608	2.2K 1/6W 5 TA26
		R118	0RD1001F608	1.0K 1/6W 5 TA26
		R119	0RN3301F408	3.3K 1/6W 1 TA26
		R120	0RN2701F408	2.70K 1/6W 1% TA26
		R121	0RD1800F608	180 1/6W 5 TA26
		R127	0RD1501F608	1.5K 1/6W 5 TA26
		R151	0RD1201F608	1.2K 1/6W 5 TA26
		R152	0RD1201F608	1.2K 1/6W 5 TA26
		R154	0RD1001F608	1.0K 1/6W 5 TA26
		R155	0RD2702F608	27K 1/6W 5 TA26
		R156	0RD1002F608	10K 1/6W 5 TA26
		R157	0RD1001F608	1.0K 1/6W 5 TA26
		R158	0RD2700F608	270 1/6W 5 TA26
		R159	0RD3300F608	330 1/6W 5 TA26
		R161	0RD2700F608	270 1/6W 5 TA26
		R162	0RD3300F608	330 1/6W 5 TA26
		R164	0RD1202F608	12K 1/6W 5 TA26
		R165	0RD1202F608	12K 1/6W 5 TA26
		R166	0RD2201F608	2.2K 1/6W 5 TA26
		R167	0RD2201F608	2.2K 1/6W 5 TA26
		R169	0RD1001F608	1.0K 1/6W 5 TA26
		R170	0RD1001F608	1.0K 1/6W 5 TA26
		R171	0RD3901F608	3.9K 1/6W 5 TA26
		R201	0RD4700F608	470 1/6W 5 TA26
		R302	0RD1002F608	10K 1/6W 5 TA26
		R303	0RD1802F608	18K 1/6W 5 TA26
		R304	0RD1002F608	10K 1/6W 5 TA26
		R305	0RD1501F608	1.5K 1/6W 5 TA26
		R306	0RD3300F608	330 1/6W 5 TA26
		R307	0RD3300F608	330 1/6W 5 TA26
		R308	0RD2701F608	2.7K 1/6W 5 TA26
		R309	0RD8200F608	820 1/6W 5 TA26
		R310	0RD1001F608	1.0K 1/6W 5 TA26
		R311	0RD4701F608	4.7K 1/6W 5 TA26
		R312	0RD1801F608	1.8K 1/6W 5 TA26
		R313	0RD4700F608	470 1/6W 5 TA26
		R316	0RD1500F608	150 1/6W 5 TA26
		R317	0RD8202F608	82K 1/6W 5 TA26
		R318	0RD4701F608	4.7K 1/6W 5 TA26
		R319	0RD1001F608	1.0K 1/6W 5 TA26
		R321	0RD1501F608	1.5K 1/6W 5 TA26
		R322	0RD8201F608	8.2K 1/6W 5 TA26
		R323	0RD5601F608	5.6K 1/6W 5 TA26
		R324	0RD1002F608	10K 1/6W 5 TA26
		R325	0RD1001F608	1.0K 1/6W 5 TA26
		R326	0RD2701F608	2.7K 1/6W 5 TA26
		R333	0RD1802F608	18K 1/6W 5 TA26
		R335	0RD1802F608	18K 1/6W 5 TA26
		R338	0RD2700F608	270 1/6W 5 TA26

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		R340	0RD1802F608	18K 1/6W 5 TA26
		R341	0RD2701F608	2.7K 1/6W 5 TA26
		R349	0RD5601F608	5.6K 1/6W 5 TA26
		R350	0RD4700F608	470 1/6W 5 TA26
		R390	0RD5601F608	5.6K 1/6W 5 TA26
		R3A1	0RD2201F608	2.2K 1/6W 5 TA26
		R3A2	0RD4702F608	47K 1/6W 5 TA26
		R3A3	0RD1001F608	1.0K 1/6W 5 TA26
		R3B1	0RD4701F608	4.7K 1/6W 5 TA26
		R402	0RD2204F608	2.2M 1/6W 5 TA26
		R403	0RD6801F608	6.8K 1/6W 5 TA26
		R404	0RD2700F608	270 1/6W 5 TA26
		R406	0RD2701F608	2.7K 1/6W 5 TA26
		R407	0RD2202F608	22K 1/6W 5 TA26
		R408	0RD2201F608	2.2K 1/6W 5 TA26
		R409	0RD4701F608	4.7K 1/6W 5 TA26
		R410	0RD1002F608	10K 1/6W 5 TA26
		R411	0RD2202F608	22K 1/6W 5 TA26
		R412	0RD1801F608	1.8K 1/6W 5 TA26
		R413	0RD8201F608	8.2K 1/6W 5 TA26
		R414	0RD1202F608	12K 1/6W 5 TA26
		R415	0RD3303F608	330K 1/6W 5 TA26
		R416	0RD1500F608	150 1/6W 5 TA26
		R417	0RD1001F608	1.0K 1/6W 5 TA26
		R418	0RD2702F608	27K 1/6W 5 TA26
		R419	0RD0472F608	47 1/6W 5 TA26
		R420	0RD1001F608	1.0K 1/6W 5 TA26
		R421	0RD0221F608	2.2 1/6W 5 TA26
		R422	0RD5600F608	560 1/6W 5 TA26
		R424	0RD2700F608	270 1/6W 5 TA26
		R425	0RD4702F608	47K 1/6W 5 TA26
		R430	0RD3901F608	3.9K 1/6W 5 TA26
		R431	0RD4701F608	4.7K 1/6W 5 TA26
		R490	0RD4702F608	47K 1/6W 5 TA26
		R491	0RD1202F608	12K 1/6W 5 TA26
		R500	0RF0681J619	6.8 OHM 1 W 5% TR
		R501	0RD1000F608	100 1/6W 5 TA26
		R502	0RD1000F608	100 1/6W 5 TA26
		R504	0RD1001F608	1.0K 1/6W 5 TA26
		R505	0RD1001F608	1.0K 1/6W 5 TA26
		R506	0RD1001F608	1.0K 1/6W 5 TA26
		R507	0RD1001F608	1.0K 1/6W 5 TA26
		R508	0RD3301F608	3.3K 1/6W 5 TA26
		R509	0RD4701F608	4.7K 1/6W 5 TA26
		R510	0RD2201F608	2.2K 1/6W 5 TA26
		R511	0RD1001F608	1.0K 1/6W 5 TA26
		R512	0RD1001F608	1.0K 1/6W 5 TA26
		R513	0RD1003F608	100K 1/6W 5 TA26
		R515	0RD2700F608	270 1/6W 5 TA26
		R517	0RD1004F608	1.0M 1/6W 5 TA26
		R518	0RD5600F608	560 1/6W 5 TA26
		R519	0RD2702F608	27K 1/6W 5 TA26
		R520	0RD5601F608	5.6K 1/6W 5 TA26
		R521	0RD3301F608	3.3K 1/6W 5 TA26
		R522	0RD1001F608	1.0K 1/6W 5 TA26
		R523	0RD1502F608	15K 1/6W 5 TA26
		R525	0RD5601F608	5.6K 1/6W 5 TA26
		R526	0RD5601F608	5.6K 1/6W 5 TA26
		R527	0RD5600F608	560 1/6W 5 TA26
		R528	0RD1002F608	10K 1/6W 5 TA26
		R529	0RD1002F608	10K 1/6W 5 TA26
		R531	0RD1002F608	10K 1/6W 5 TA26

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		R534	0RD1004F608	1.0M 1/6W 5 TA26
		R535	0RD4703F608	470K 1/6W 5 TA26
		R542	0RD2201F608	2.2K 1/6W 5 TA26
		R543	0RD1000F608	100 1/6W 5 TA26
		R544	0RD4701F608	4.7K 1/6W 5 TA26
		R545	0RD2201F608	2.2K 1/6W 5 TA26
		R546	0RD5601F608	5.6K 1/6W 5 TA26
		R547	0RD1202F608	12K 1/6W 5 TA26
		R548	0RD1003F608	100K 1/6W 5 TA26
		R550	0RD2200F608	220 1/6W 5 TA26
		R553	0RD2200F608	220 1/6W 5 TA26
		R555	0RD2200F608	220 1/6W 5 TA26
		R556	0RD2202F608	22K 1/6W 5 TA26
		R557	0RD2702F608	27K 1/6W 5 TA26
		R558	0RD2202F608	22K 1/6W 5 TA26
		R559	0RD4701F608	4.7K 1/6W 5 TA26
		R560	0RD4701F608	4.7K 1/6W 5 TA26
		R561	0RD5600F608	560 1/6W 5 TA26
		R562	0RD5600F608	560 1/6W 5 TA26
		R563	0RD1002F608	10K 1/6W 5 TA26
		R564	0RD2702F608	27K 1/6W 5 TA26
		R567	0RD1801F608	1.8K 1/6W 5 TA26
		R568	0RD6803F608	680K 1/6W 5 TA26
		R569	0RD1004F608	1.0M 1/6W 5 TA26
		R570	0RD4701F608	4.7K 1/6W 5 TA26
		R575	0RD4701F608	4.7K 1/6W 5 TA26
		R576	0RD4701F608	4.7K 1/6W 5 TA26
		R577	0RD4701F608	4.7K 1/6W 5 TA26
		R578	0RD4701F608	4.7K 1/6W 5 TA26
		R579	0RD5602F608	56K 1/6W 5 TA26
		R581	0RD6802F608	68K 1/6W 5 TA26
		R583	0RD1002F608	10K 1/6W 5 TA26
		R586	0RD2201F608	2.2K 1/6W 5 TA26
		R589	0RD1004F608	1.0M 1/6W 5 TA26
		R590	0RD1001F608	1.0K 1/6W 5 TA26
		R5A1	0RD6802F608	68K 1/6W 5 TA26
		R5A2	0RD1003F608	100K 1/6W 5 TA26
		R5A3	0RD5602F608	56K 1/6W 5 TA26
		R5A4	0RD2202F608	22K 1/6W 5 TA26
		R5B1	0RD1001F608	1.0K 1/6W 5 TA26
		R5B3	0RD1001F608	1.0K 1/6W 5 TA26
		R5B4	0RD1001F608	1.0K 1/6W 5 TA26
		R5B5	0RD1000F608	100 1/6W 5 TA26
		R5C1	0RD1001F608	1.0K 1/6W 5 TA26
		R5C2	0RD1001F608	1.0K 1/6W 5 TA26
		R5C3	0RD1001F608	1.0K 1/6W 5 TA26
		R5C4	0RD1001F608	1.0K 1/6W 5 TA26
		R5C5	0RD1001F608	1.0K 1/6W 5 TA26
		R5C6	0RD1001F608	1.0K 1/6W 5 TA26
		R5C7	0RD1001F608	1.0K 1/6W 5 TA26
		R5C9	0RD1002F608	10K 1/6W 5 TA26
		R5F0	0RD0102F608	10 1/6W 5 TA26
		R5F1	0RD0102F608	10 1/6W 5 TA26
		R5F2	0RD0152F608	15 1/6W 5 TA26
		R5F3	0RD0152F608	15 1/6W 5 TA26
		R5H2	0RD3300F608	330 1/6W 5 TA26
		R5K1	0RD1801F608	1.8K 1/6W 5 TA26
		R5K2	0RD1501F608	1.5K 1/6W 5 TA26
		R5K3	0RD2201F608	2.2K 1/6W 5 TA26
		R5K4	0RD2701F608	2.7K 1/6W 5 TA26
		R5K5	0RD3901F608	3.9K 1/6W 5 TA26
		R5K6	0RD6801F608	6.8K 1/6W 5 TA26

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		R5K7	0RD1202F608	12K 1/6W 5 TA26
		R5P1	0RD3300F608	330 1/6W 5 TA26
		R5P2	0RD1002F608	10K 1/6W 5 TA26
		R5P3	0RD1002F608	10K 1/6W 5 TA26
		R5S2	0RD6801F608	6.8K 1/6W 5 TA26
		R5S3	0RD3300F608	330 1/6W 5 TA26
		R5T1	0RD1801F608	1.8K 1/6W 5 TA26
		R5X1	0RD1001F608	1.0K 1/6W 5 TA26
		R5X2	0RD1001F608	1.0K 1/6W 5 TA26
		R5X3	0RD1001F608	1.0K 1/6W 5 TA26
		R5X4	0RD1001F608	1.0K 1/6W 5 TA26
		R5X5	0RD1000F608	100 1/6W 5 TA26
		R5X6	0RD1000F608	100 1/6W 5 TA26
		R5X7	0RD1000F608	100 1/6W 5 TA26
		R5X8	0RD1001F608	1.0K 1/6W 5 TA26
		R5X9	0RD6802F608	68K 1/6W 5 TA26
		R704	0RD4700F608	470 1/6W 5 TA26
		R706	0RD2200F608	220 1/6W 5 TA26
		R707	0RD2200F608	220 1/6W 5 TA26
		R751	0RD1001F608	1.0K 1/6W 5 TA26
		R752	0RD1000F608	100 1/6W 5 TA26
		R753	0RD1000F608	100 1/6W 5 TA26
		R754	0RD6800F608	680 1/6W 5 TA26
		R755	0RD6800F608	680 1/6W 5 TA26
		R756	0RD2201F608	2.2K 1/6W 5 TA26
		R757	0RD2201F608	2.2K 1/6W 5 TA26
		R758	0RD3902F608	39K 1/6W 5 TA26
		R791	0RD2201F608	2.2K 1/6W 5 TA26
		R792	0RD2201F608	2.2K 1/6W 5 TA26
		R793	0RD1001F608	1.0K 1/6W 5 TA26
		R794	0RD1001F608	1.0K 1/6W 5 TA26
		R7C1	0RD4700F608	470 1/6W 5 TA26
		R7M1	0RD1001F608	1.0K 1/6W 5 TA26
		R7M3	0RD1001F608	1.0K 1/6W 5 TA26
		R7M5	0RD2200F608	220 1/6W 5 TA26
		R7V4	0RD2201F608	2.2K 1/6W 5 TA26
		R7V5	0RD1002F608	10K 1/6W 5 TA26
		R7V6	0RD5601F608	5.6K 1/6W 5 TA26
		R817	0RD2204F608	2.2M 1/6W 5 TA26
		R818	0RD3302F608	33K 1/6W 5 TA26
		R819	0RD2701F608	2.7K 1/6W 5 TA26
		R820	0RD5602F608	56K 1/6W 5 TA26
		R821	0RD2701F608	2.7K 1/6W 5 TA26
		R822	0RD3302F608	33K 1/6W 5 TA26
		R823	0RD4700F608	470 1/6W 5 TA26
		R824	0RD1000F608	100 1/6W 5 TA26
		R825	0RD5600F608	560 1/6W 5 TA26
		R826	0RD1802F608	18K 1/6W 5 TA26
		R827	0RD1002F608	10K 1/6W 5 TA26
		R828	0RD1001F608	1.0K 1/6W 5 TA26
		R829	0RD1004F608	1.0M 1/6W 5 TA26
		R830	0RD1203F608	120K 1/6W 5 TA26
		R831	0RD1001F608	1.0K 1/6W 5 TA26
		R901	0RD0752F608	75 1/6W 5 TA26
		R902	0RD0752F608	75 1/6W 5 TA26
		R905	0RD5600F608	560 1/6W 5 TA26
		R906	0RD5600F608	560 1/6W 5 TA26
		R911	0RD0752F608	75 1/6W 5 TA26
		R912	0RD0752F608	75 1/6W 5 TA26
		R915	0RD5600F608	560 1/6W 5 TA26
		R916	0RD5600F608	560 1/6W 5 TA26
		R925	0RD5600F608	560 1/6W 5 TA26

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		R926	0RD5600F608	560 1/6W 5 TA26
		R933	0RD1202F608	12K 1/6W 5 TA26
		R934	0RD1002F608	10K 1/6W 5 TA26
		R947	0RD3300F608	330 1/6W 5 TA26
		R948	0RD3300F608	330 1/6W 5 TA26
		R949	0RD1000F608	100 1/6W 5 TA26
		R950	0RD1000F608	100 1/6W 5 TA26
		R9F3	0RD0752F608	75 1/6W 5 TA26
		RF01	0RD2200F608	220 1/6W 5 TA26
		RF02	0RD4702F608	47K 1/6W 5 TA26
		RF03	0RD5601F608	5.6K 1/6W 5 TA26
		RF04	0RD5601F608	5.6K 1/6W 5 TA26
		RF05	0RD4702F608	47K 1/6W 5 TA26
		RF06	0RD4702F608	47K 1/6W 5 TA26
		RF07	0RD1002F608	10K 1/6W 5 TA26
		RF08	0RD1002F608	10K 1/6W 5 TA26
		RF09	0RD1002F608	10K 1/6W 5 TA26
		RF10	0RD4701F608	4.7K 1/6W 5 TA26
		RF11	0RD2200F608	220 1/6W 5 TA26
		RF12	0RD1002F608	10K 1/6W 5 TA26
		RF13	0RD4701F608	4.7K 1/6W 5 TA26
		RF14	0RD4702F608	47K 1/6W 5 TA26
REMOCON RECEIVER				
		R/C5F1	6712R2938GA	TSOP1238SP1 TEMIC 29.6MM 37.9K
SENSOR				
		ES501	4931R-0016A	END
		ES502	4931R-0016A	END
		IC102	657-062B	PC123Y PHOTO-COUPLER(SARPH)
	OR	IC102	657-063A	LTV-817B,PHOTO COUPLER(LITEON)
		LD501	4931R-0017A	LED
		RS501	6500RAB002A	GP1S566 SHARP D-33 REEL SENSOR
		RS502	6500RAB002A	GP1S566 SHARP D-33 REEL SENSOR
SWITCH				
	OR	CS501	6600RDB004B	SPPB62042 ALPS UL 5V 0A HORIZO
		CS501	6600RDB004C	MPU10252MLB4 MIC NON 5V 0.01A
		MS501	6600RPY001B	MMS00420ZMBO MIC NON 5V 1MA VE
		SW5A2	556-213C	SKHV10912A LGEC NON 12V 5A VER
		SW5K1	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K2	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K3	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K4	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K5	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K6	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K7	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K8	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5T1	556-213C	SKHV10912A LGEC NON 12V 5A VER
TUNER				
		TU701	6700RP3G01E	TCMK0601PD08C SS G/K/I HIFI 3I
	OR	TU701	6700RP3L02E	TADC-G006D LGC&D G/K/I HIFI 3I
VARIABLE RESISTOR				
		VR501	613-032W	RH063MCJ5R (220K)
CRYSTAL				

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
	OR	X502	529-001B	32.768KHZ 3*8,KDS
		X502	529-001K	32.768KHZ SEIKO
		X751	529-021Q	18.432MHZ DBS KUKJAE
RESONATOR				
	OR	X301	6202R1443AC	X-TAL 4.433709M 15PPM SER KJE
	OR	X301	6202R1443AD	4.433709M 15PPM SER SUNNY
		X301	6202R1443AE	TAEIL HC49U 4.433709MHZ 15PPM
	OR	X501	6202R31001E	ATS TAEIL RADIAL 10.0000MHZ 30
		X501	6202R31001F	HC-49S KEUMSEOK RADIAL 10.0000
	OR	X503	6202R31771E	ATS TAEIL RADIAL 17.734476MHZ
		X503	6202R31771F	HC-49S KEUMSEOK RADIAL 17.7344
		X5F1	6212RT0004A	CST12.0MTW MURATA 12MHZ TP LC8
	OR	X7V1	6202R31771E	ATS TAEIL RADIAL 17.734476MHZ
		X7V1	6202R31771F	HC-49S KEUMSEOK RADIAL 17.7344
ZENER DIODE				
		ZD104	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD151	0DZ130009AA	MTZ13A TP ROHM-K
		ZD152	0DZ100009FA	MTZ10-C T-77 10V TP,ROHM/K
		ZD153	0DZ130009AA	MTZ13A TP ROHM-K
		ZD501	0DZ680009CA	MTZ6.8C TP ROHM-K
		ZD503	0DZ680009CA	MTZ6.8C TP ROHM-K
		ZD701	0DZ330009AF	MTZ33B,TP,ROHM-K
		ZD801	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD802	0DZ130009AA	MTZ13A TP ROHM-K
		ZD808	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD810	0DZ130009AA	MTZ13A TP ROHM-K
		ZD905	0DZ130009AA	MTZ13A TP ROHM-K
		ZD9F1	0DZ620009AA	MTZ6.2B (TA)
		ZD9F2	0DZ620009AA	MTZ6.2B (TA)
		ZD9F3	0DZ130009AA	MTZ13A TP ROHM-K
		ZD9F4	0DZ130009AA	MTZ13A TP ROHM-K
		ZD9F5	0DZ130009AA	MTZ13A TP ROHM-K
		ZD9F6	0DZ130009AA	MTZ13A TP ROHM-K

MEMO